

# **Fiery X3**

CONFIGURATION GUIDE





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**Part Number:** 45025141

**FCC Information****Declaration of Conformity**

Trade Name:	Fiery Server
Model Number:	MXI-01
Compliance Test Report Number:	M10810A1
Compliance Test Report Date:	August 23, 2001
Responsible Party (in USA):	Electronics For Imaging, Inc.
Address:	303 Velocity Way, Foster City, CA 94404
Telephone:	(650) 357-3500

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Product Type	Digital Copier with Printer Controller
System Product Name	Di650 with Fiery X3 (MXI-01)
Options	EDH-2, FN-104, FN-4, Cover Inserter A, C-305, C-305L, TMG-1, and I/F KIT L
Accessories	HDD for Di650A, M64-1, M128-1
Standards	<p>Safety * 2 : EN 60 950/1992 (A1, A2, A3, A4 &amp; A11)          (Safety of information technology equipment, including electrical business equipment)          EN 60825-1 / 1994 with A11 (Copier only)          (Radiation safety of laser products, equipment classification, requirements, and user's guide)</p> <p>EMC *1 : EN55 022 (Class B)/1994 with A1 (1995) &amp; A2 (1997)          EN55 022 (Class B)/1998 (Printer Controller only)          (Limits and method for measurement of radio disturbance characteristics of information technology equipment (ITE))          EN61000-3-2/1995 (Electromagnetic compatibility (EMC)- Part 3: Limits, Section 2: Limits for harmonic current emissions (equipment input current <math>\leq</math>16A per phase))          EN61000-3-3/1995 (Electromagnetic compatibility (EMC)- Part 3: Limits, Section 2: Limitation of voltage fluctuations and flicker in low-voltage supply systems for equipment with rated current <math>\leq</math>16A          EN55024/1998 (Information technology equipment — immunity characteristics — Limits and methods of measurement          EN61000-4-2/1995 : Electrostatic discharge immunity test          EN61000-4-3/1995 : Radiated electromagnetic field immunity test          EN61000-4-4/1995 : Electrical fast transient/burst immunity test          EN61000-4-5/1995 : Surge immunity test          EN61000-4-6/1996 : Immunity to conducted disturbance, induced by radio-frequency field          EN61000-4-8/1993 : Power-frequency magnetic field immunity test          EN61000-4-11: Voltage dips, short interruptions and voltage variations immunity test</p> <p>Notes: *1) EMC performance: This product was designed for operation in a typical office environment.          *2) First year of labeling according to EC-directive 73/23/EEC and 93/68/EEC: 2000          3) This product was designed for operation in a typical office environment.</p>
EC Directives	<p>Safety: 73/23/EEC and 93/68/EEC          EMC: 89/336/EEC and 93/68/EEC</p>

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## Introduction

This manual is intended for anyone who is responsible for integrating the Fiery® X3™ 65BW-M Pro into a business environment that includes networked personal computers. After you set up the Fiery X3 65BW-M Pro and client workstations as described in this manual and in *Getting Started*, individual users can print to the Fiery X3 65BW-M Pro as a high-performance printer.

## Network administration features

Fiery X3 software offers several important features that affect you as a network or printer administrator:

- **Direct (native) support of NDS (Novell Directory Services) with NetWare 4.x**  
NetWare 4.x can also be supported in bindery emulation.
- **Simultaneous NetWare 4.x and NetWare 3.12 connections supported**  
One NetWare 4.x NDS tree and up to eight NetWare 3.12 bindery servers (or NetWare 4.x servers in bindery emulation mode) can be connected to the Fiery X3.
- **Fiery Downloader™**  
Fiery Downloader can be run from Mac OS computers.
- **Fiery WebTools™ (Fiery WebSpooler™, Status, Installer, WebDownloader, WebSetup, WebScan™, and WebLink)**  
Fiery WebTools allow you to manage the Fiery X3 from the Internet or from your company's intranet. To use Fiery WebTools, you need to set certain options in Network Setup and Printer Setup.
- **Job tracking**  
Job Logs can include two user-entered Notes fields.

- **Support for PCL and PostScript**

PCL (Printer Control Language) and PostScript are both page description languages—computer languages that control the transfer of information from the computer to the controller. Both PCL and PostScript, along with separate sets of fonts, are standard with the Fiery X3.

- **Support for Windows (SMB) printing**

Windows printing, also known as SMB (Server Message Block) printing, allows you to print on TCP/IP networks using built-in Microsoft networking support and without additional network software. Printing using SMB allows you to print from your computer to a particular connection (Hold, Print, or Direct) on the Fiery X3.

**NOTE:** SMB is not supported on Windows 2000.

## About this manual

This manual includes guidelines on the following topics:

- Basic configuration of the Fiery X3 to support printing over AppleTalk, TCP/IP, and IPX (Novell) networks
- Setting up a parallel port connection
- Configuring Novell and Windows NT 4.0 servers and UNIX systems to provide Fiery X3 printing services
- Administering network printing
- Using the Fiery X3 in mixed network environments
- Setting up a Token Ring connection

**NOTE:** The network guidelines in this manual are not intended to replace the services of an experienced network engineer.

## Organization

The manual is organized as follows:

- Chapter 1 illustrates the supported network configurations and shows the network connectors on the Fiery X3.
- Chapter 2 describes Fiery X3 configuration from the Control Panel.
- Chapter 3 describes Fiery X3 configuration from a Microsoft Windows computer.
- Chapter 4 offers guidelines for setting up Windows NT 4.0 and Novell network servers and UNIX systems for printing to the Fiery X3.
- Chapter 5 summarizes some administrative features of Fiery X3 software that are available for IPX/SPX, TCP/IP, and AppleTalk networks, and also offers some troubleshooting hints.
- Appendix A describes the Token Ring option.

**NOTE:** Administrator features described in other manuals are summarized on page 5-1.

## About the documentation

This manual is part of the set of Fiery X3 documentation that includes the following manuals for users and system administrators:

- The *Configuration Guide* explains basic configuration and administration of the Fiery X3 for the supported platforms and network environments. It also includes guidelines for setting up UNIX, Windows NT 4.0, and NetWare servers to provide PCL and PostScript printing services to clients.
- *Getting Started* describes how to install software to enable users to print to the Fiery X3. Specifically, it describes installation of printer drivers, printer description files, and other user software provided on the User Software CD. It also explains how to connect each user to the network.
- The *Printing Guide* describes how to set printing options and print to the Fiery X3. This manual also describes how to use the software installed from the User Software CD, including chapters on printing from Windows and Mac OS computers.

- The *Job Management Guide* explains the functions of the Fiery utilities, including Command WorkStation™, and how they can be used to manage jobs. This book is intended for an operator or administrator, or a user with the necessary access privileges, who needs to monitor and manage job flow, and troubleshoot problems that may arise.
- *Release Notes* provide last-minute product information and workarounds for some of the problems you may encounter.

**NOTE:** If there are any connectivity or administrative features that are specific to a copier model, they are described in *Getting Started*, the *Printing Guide*, or the *Release Notes*.

## Chapter 1: Connecting to the Network

This chapter summarizes the stages in setting up the Fiery X3 and includes diagrams that refer you to other chapters or other manuals for completing your installation.

### Fiery X3 on the network

When the Fiery X3 is connected to a network, it behaves as a networked PCL or PostScript printer. The built-in Ethernet interface on the Fiery X3 supports the following network protocols:

- AppleTalk
- TCP/IP (the lpd, nbt, and http protocols)

TCP/IP stands for Transmission Control Protocol/Internet Protocol. The lpd protocol is the standard TCP/IP printing protocol. The nbt protocol supports Windows (SMB) printing. The http protocol is commonly used for Web pages on the Internet and on intranets.

- IPX/SPX (Novell)

IPX/SPX stands for Internetwork Packet Exchange/Sequenced Packet Exchange.

These protocols (rules that enable computers on a network to communicate with each other) are supported on the Windows, Mac OS, and UNIX platforms and can run concurrently on the same Ethernet cable. Workstations that use other protocols can print through a server that uses one of the protocols mentioned, or they can print to the Fiery X3 parallel port.

A Token Ring option is also available. This option supports the TCP/IP and IPX protocols. The Fiery X3 is auto-sensing and can handle all of these connections simultaneously.

When you add the Fiery X3 to a network, it is assumed that a network administrator will have already installed a network cabling system and connected workstations and servers.

## Stages of installation on the network

Installation can be performed by a network or printing administrator. The stages of a successful installation are:

- **Physically connecting the Fiery X3 to a functioning network**

Prepare a network node for the Fiery X3—obtain cable and route it to the location where the Fiery X3 will be installed (near the copier), and attach the cable to the network interface of the Fiery X3. See page 1-11 for details.

- **Configuring network servers**

When network servers are required, you need to configure those servers to provide client access to the Fiery X3 as a PostScript or PCL printer. See Chapter 4 for information on configuring network servers in Windows and UNIX network environments.

- **Fiery X3 Setup**

Configure the Fiery X3 for your particular printing and network environment. See Chapter 2 for details.

- **Client setup**

Install the files needed for printing, install additional user software, and connect the client to the Fiery X3 over the network. These steps are described in *Getting Started*, and some information is provided in Chapter 4 of this manual.

- **System administration**

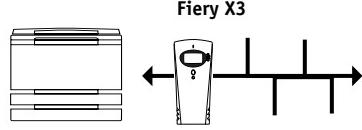
Monitor and maintain system performance and troubleshoot problems that arise. See Chapter 5 for details.

# 1

## 1-3 Stages of installation on the network

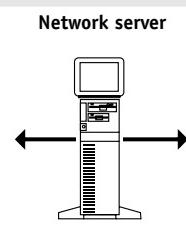
### Summary of Fiery X3 network installation

#### CONNECTION



Prepare a network node. Connect the Fiery X3 to the copier and to the network.

#### NETWORK SERVER CONFIGURATION

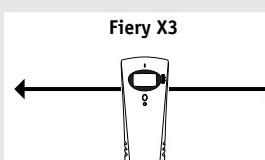


Configure UNIX, Windows NT, and Netware (Novell) servers to specify Fiery X3 print queues and Fiery X3 users.

Install printer files on the server.

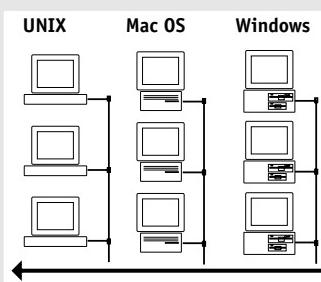
No special configuration of AppleShare servers is required.

#### FIERY X3 SETUP



On the Fiery X3 Control Panel, configure Server Setup, Network Setup, Printer Setup, PS Setup, PCL Setup, and Job Log Setup.

#### CLIENT SETUP



At each workstation that will print to the Fiery X3:

- Install the appropriate printer drivers, and connect to one or more queues.
- For computers that will use the Fiery WebTools, install an Internet browser.
- Verify the Fiery X3 in the list of printers and run a test print.



Fiery X3 available on the network

## Quick path to installation

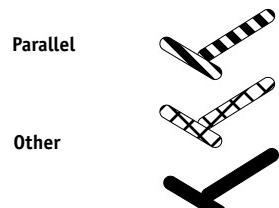
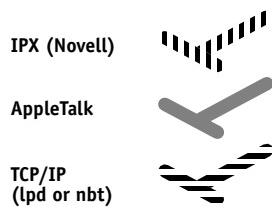
The diagrams in the following pages show typical systems that can be used for printing and for using remote utilities. To use the diagrams, find the page with your preferred platform and network type. Then look up the setup procedures in the pages and books referred to in the keys.

The diagrams describe devices that use the supported networking protocols. They are logical diagrams and are not intended to describe the physical arrangement (topology) of devices on the network. A variety of physical arrangements is possible with each logical arrangement. For example, twisted pair Ethernet networks commonly use a star configuration around a hub, rather than a bus arrangement. The design of physical networks is beyond the scope of this manual.

If the network uses more than one protocol or more than one type of workstation, combine the setups listed for each component of your system. Multiple protocols (shown in the diagrams as parallel lines) can run on the same cable. A solid connection from the Fiery X3 with an arrow indicates that other supported network types can be operational at the same time.

Token Ring hardware is required for connection to a Token Ring network. See Appendix A for details. The IPX/SPX and TCP/IP functionality outlined in this section is available on both Ethernet and Token Ring networks. AppleTalk is supported on Ethernet only.

The protocols used in these diagrams are indicated as follows:



# 1

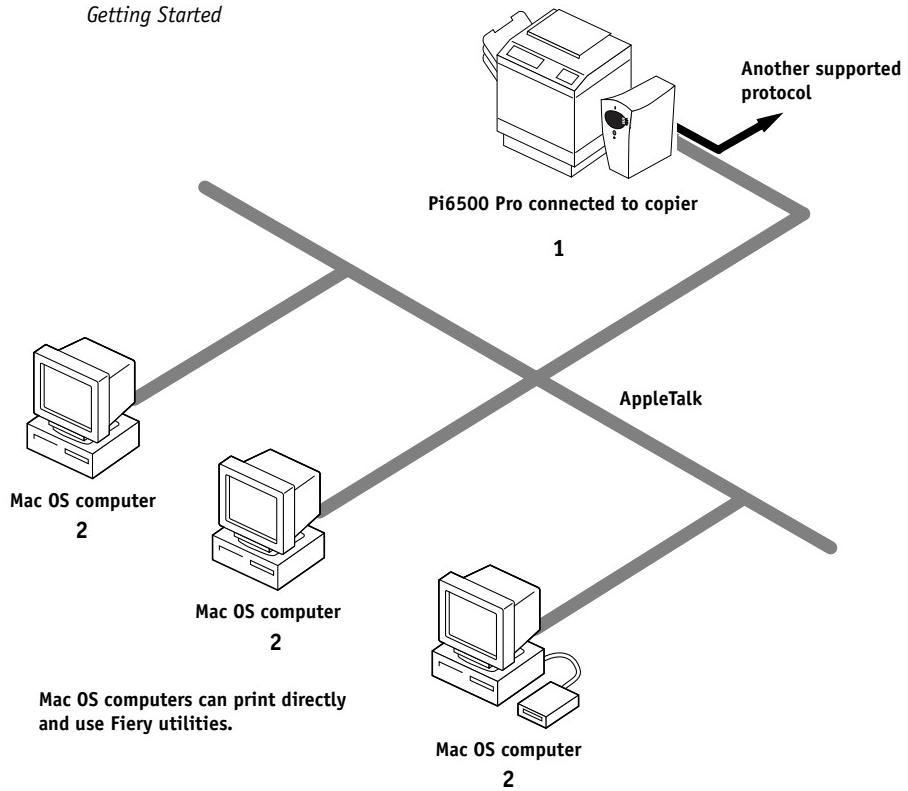
## 1-5 Quick path to installation

### Mac OS environment with AppleTalk

#### Key to setup:

- 1 Fiery X3 Setup
- 2 Mac OS computer

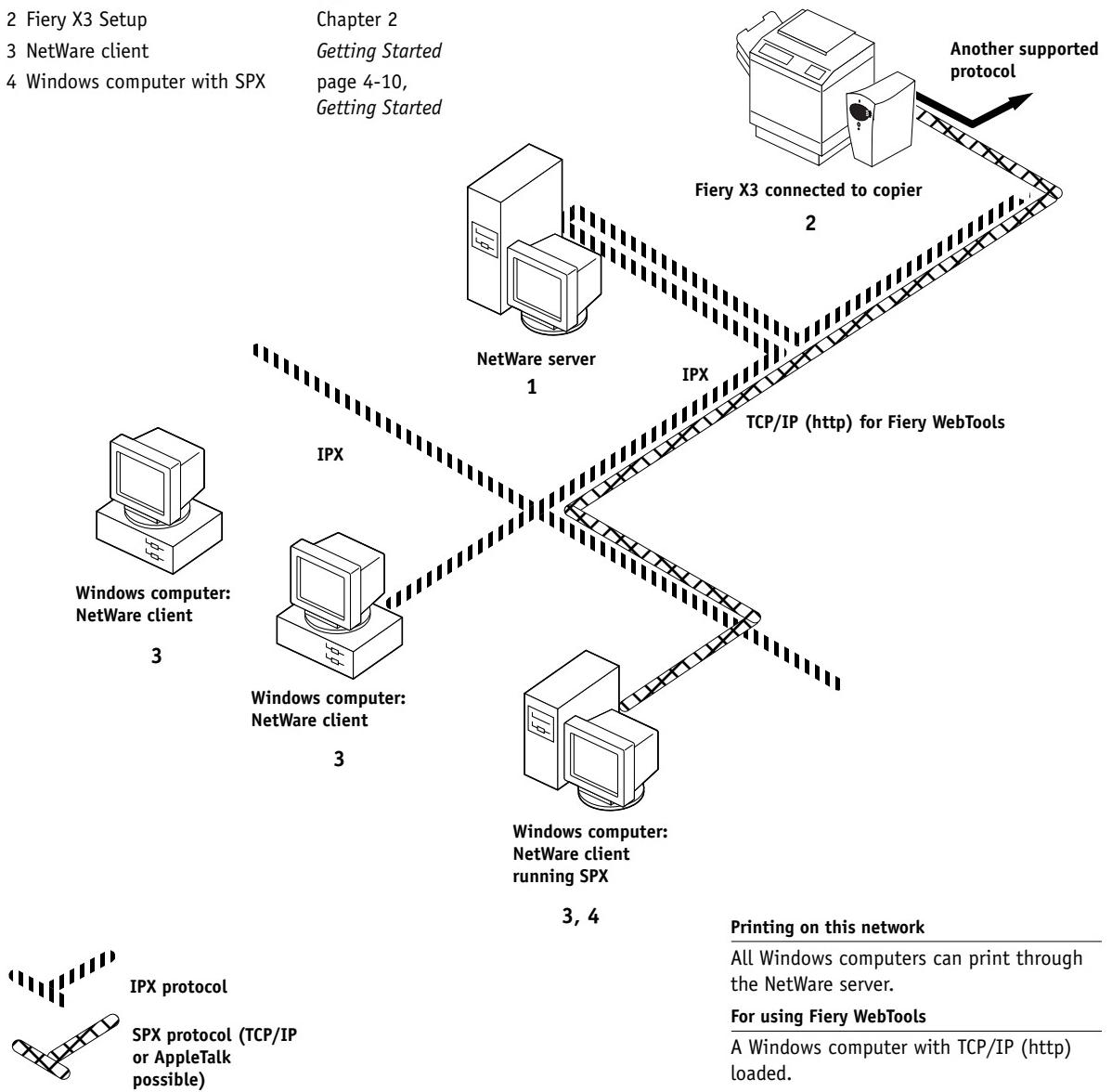
Chapter 2  
*Getting Started*



### Windows computers in a Novell environment

#### Key to setup:

- |                             |                                      |
|-----------------------------|--------------------------------------|
| 1 NetWare server            | page 4-4                             |
| 2 Fiery X3 Setup            | Chapter 2                            |
| 3 NetWare client            | <i>Getting Started</i>               |
| 4 Windows computer with SPX | page 4-10,<br><i>Getting Started</i> |



#### Printing on this network

All Windows computers can print through the NetWare server.

#### For using Fiery WebTools

A Windows computer with TCP/IP (http) loaded.

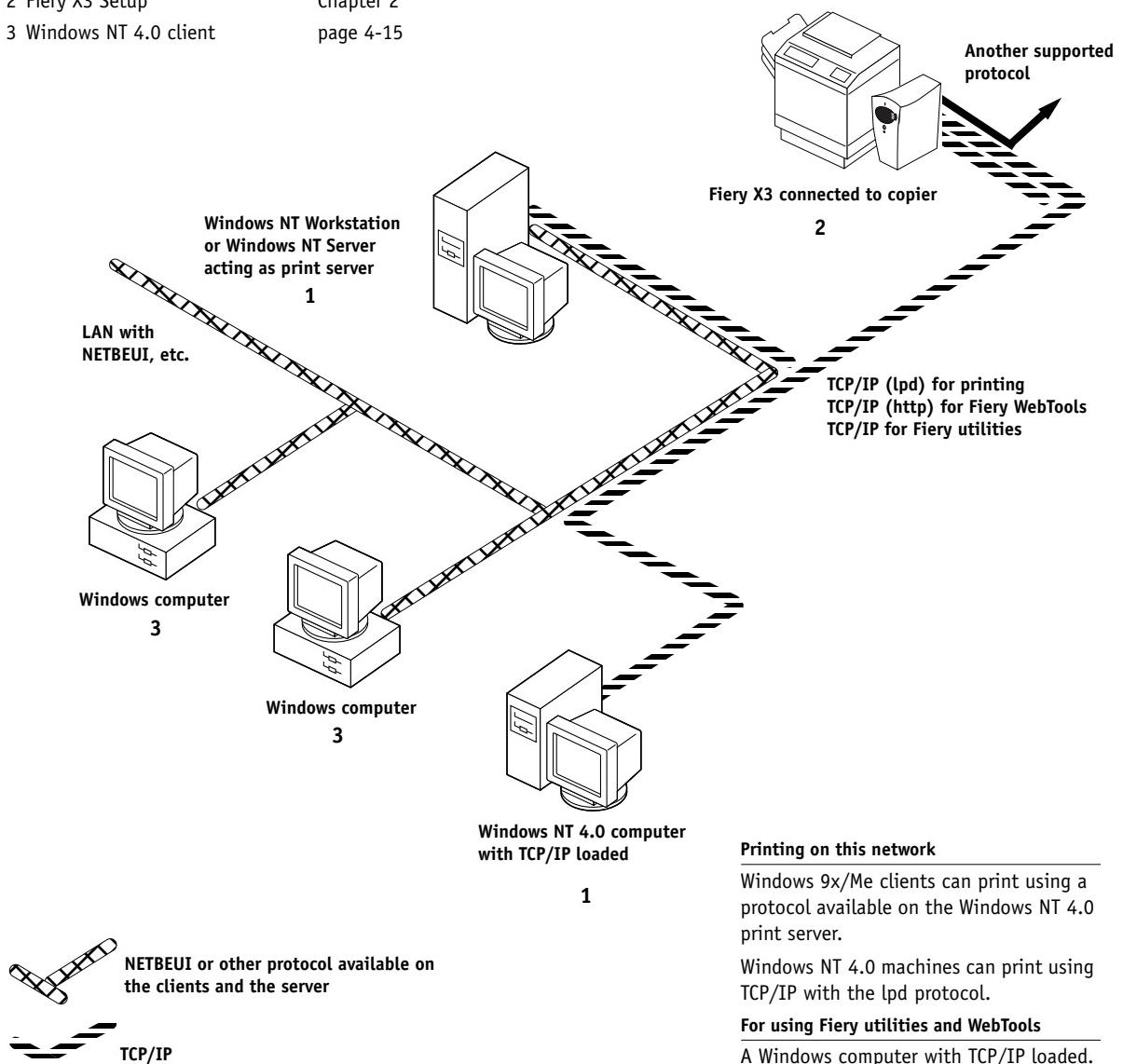
# 1

## 1-7 Quick path to installation

### Windows NT Server environment

#### Key to setup:

- |                         |           |
|-------------------------|-----------|
| 1 Windows NT 4.0 Server | page 4-12 |
| 2 Fiery X3 Setup        | Chapter 2 |
| 3 Windows NT 4.0 client | page 4-15 |

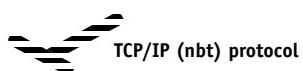
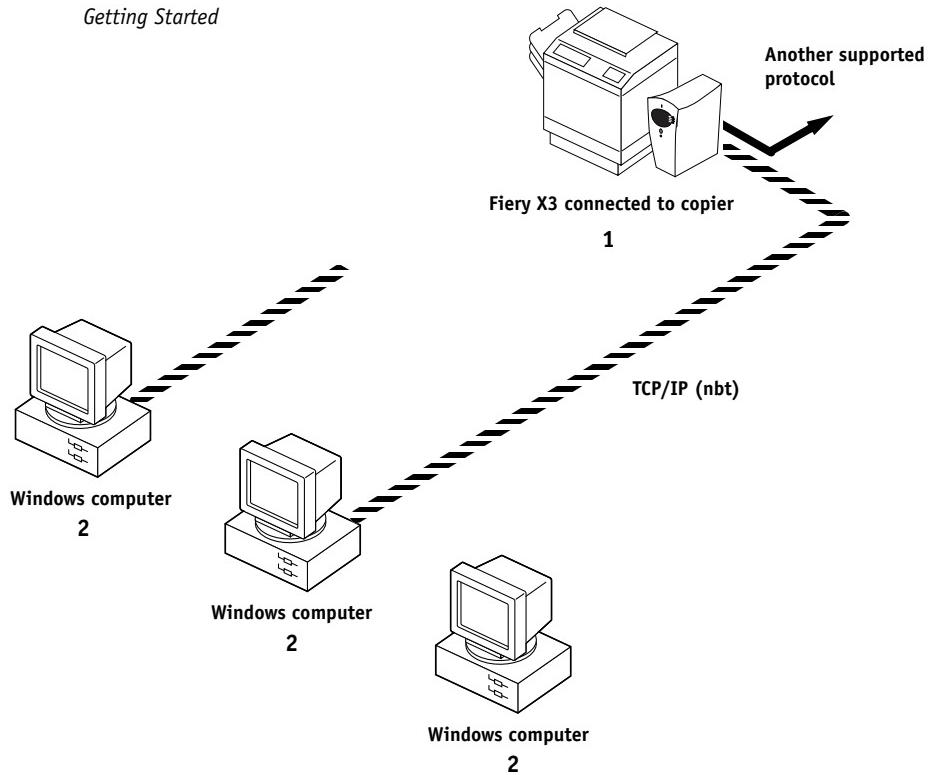


### Windows computers using Windows (SMB) printing

**Key to setup:**

- 1 Fiery X3 Setup
- 2 Windows computer

Chapter 2  
*Getting Started*



TCP/IP (nbt) protocol

---

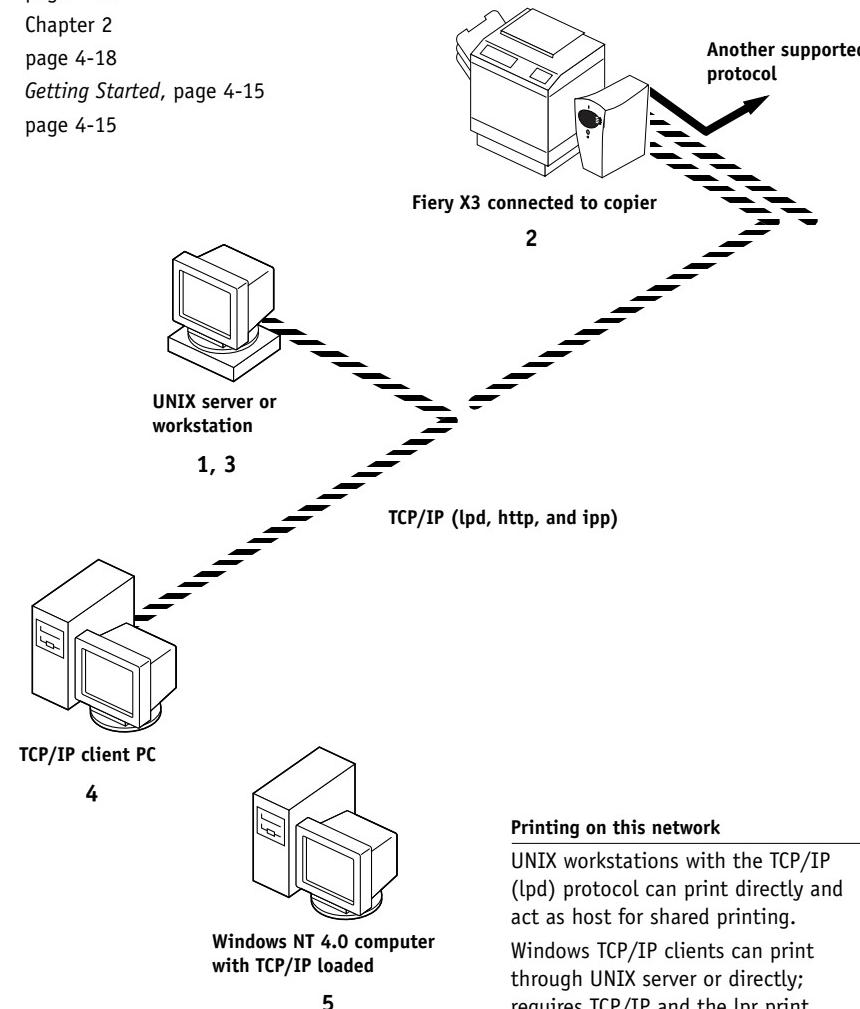
**For Windows printing**

Windows computers

Windows (SMB) printing enabled  
on the Fiery X3

**UNIX workstations and Windows NT 4.0 computers on a TCP/IP network****Key to setup:**

- |                         |                                    |
|-------------------------|------------------------------------|
| 1 UNIX server/host      | page 4-18                          |
| 2 Fiery X3 Setup        | Chapter 2                          |
| 3 UNIX workstation      | page 4-18                          |
| 4 TCP/IP client         | <i>Getting Started</i> , page 4-15 |
| 5 Windows NT 4.0 client | page 4-15                          |

**Printing on this network**

UNIX workstations with the TCP/IP (lpd) protocol can print directly and act as host for shared printing.

Windows TCP/IP clients can print through UNIX server or directly; requires TCP/IP and the lpr print service loaded.

**For using Fiery WebTools**

UNIX workstations are not supported.

Windows NT 4.0 computers need TCP/IP loaded.



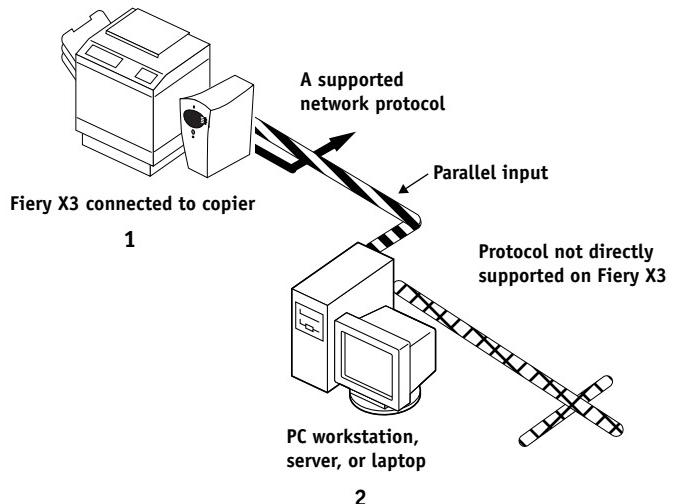
TCP/IP (lpd) protocol

### Fiery X3 parallel port connection

#### Key to setup:

- |                    |                        |
|--------------------|------------------------|
| 1 Fiery X3 Setup   | Chapter 2              |
| 2 Windows computer | <i>Getting Started</i> |

With the parallel port enabled, the Fiery X3 can accept and print jobs sent to its parallel port.



The rest of this chapter and the next cover installation as performed on the Fiery X3 itself. This chapter describes the physical network connections; Chapter 2 summarizes Fiery X3 Setup and other administrative functions available from the Control Panel.



## Before you begin

The following steps should be completed before you configure the Fiery X3 and the workstations that will print to the Fiery X3. A service technician will have performed some initial installation.

---

### TO PREPARE FOR FIERY X3 CONFIGURATION

- 1. Print a copier test page to make sure the copier is functioning normally.**
- 2. Turn off the copier and connect the interface cable from the copier to the Fiery X3.**
- 3. To confirm this connection, turn on the copier and the Fiery X3 and print a Test Page from the Control Panel.**

To print a Test Page, press the Menu button on the Control Panel to display the Functions menu. (See “Fiery X3 Control Panel” on page 2-3.) Choose Print Pages, and then Test Page.

- 4. With both the copier and Fiery X3 turned off, connect the network cable to the Fiery X3, as described in the next section.**
- The network should already be installed and operational.
- 5. Turn on the copier and then the Fiery X3.**
  - 6. Prepare network servers to share Fiery X3 user software and to enable networked users to print to the Fiery X3, and proceed to Setup.**

See Chapters 2 and 3 for details.



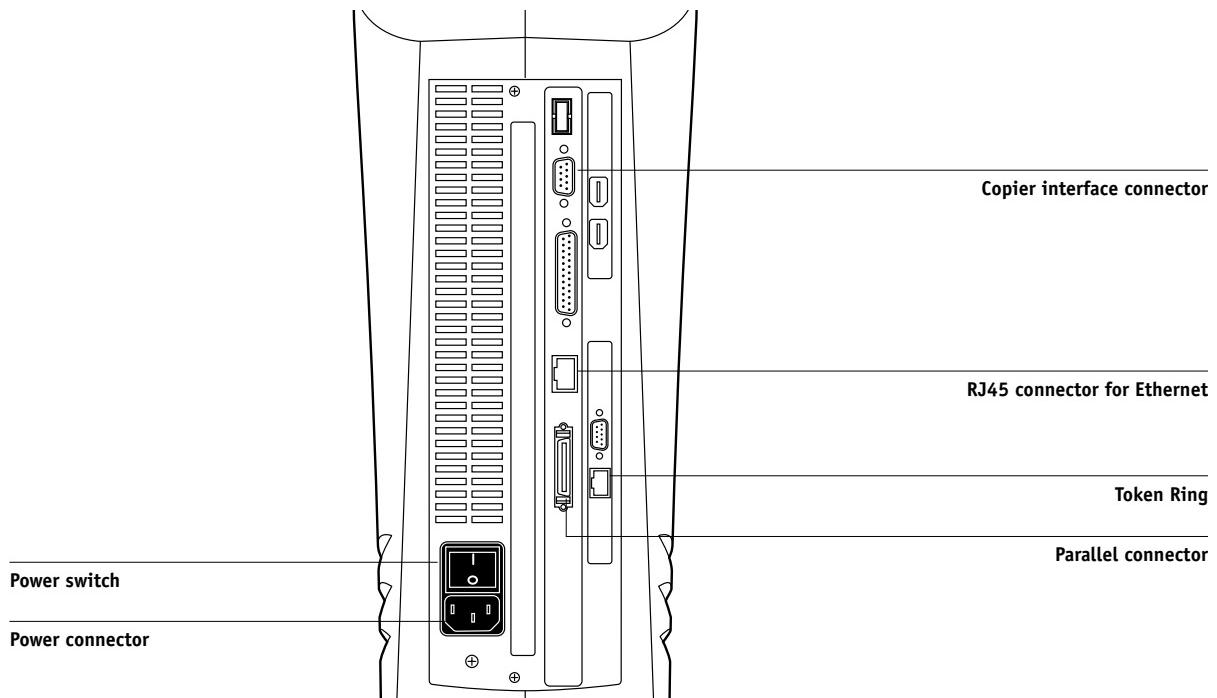
## Ethernet cable connection

The Fiery X3 supports Ethernet cabling of these types:

- Thicknet (thick coaxial Ethernet cable or 10Base5)  
Connects directly to the AUI connector on the Ethernet interface of the Fiery X3.
- Unshielded Twisted Pair (UTP), defined as Category 5 for use with 100BaseT or defined as Category 3 or Category 5 for use with 10BaseT  
Uses an 8-pin RJ-45 connector that plugs into the RJ-45 socket on the Fiery X3.

**NOTE:** The 100BaseT type supported by the Fiery X3 is 100BaseTX, also known as Fast Ethernet. If an Ethernet hub is used, it must be a 100BaseTX hub. The term “100BaseT” is used in this manual to refer to 100BaseTX.

## Back view of the Fiery X3





Shut down the copier before attaching the Fiery X3 to any network device. Do not attach cables to more than one Ethernet connector; only one Ethernet connection can be made at any one time.

---

#### TO USE UTP CABLE FOR 100BASET OR 10BASET

1. **With the Fiery X3 turned off, connect the RJ-45 cable connector to the RJ-45 socket on the back of the Fiery X3.**
2. **Configure network servers for printing and then proceed to Setup.**

### Parallel cable connection

In addition to receiving print jobs over Ethernet, the Fiery X3 can accept print jobs from a Windows computer through its high-speed parallel port. This connection is advantageous for portable computers and for workstations that use dedicated networks using protocols other than AppleTalk, TCP/IP, or IPX.

The parallel port connection can be active at the same time as the network ports.

---

#### TO USE PARALLEL CABLE

1. **With the Fiery X3 and the Windows computer turned off, attach the parallel cable to the parallel port of the Fiery X3.**  
See the illustration on page 1-12 for the location of the parallel port.
2. **Connect the other end of the cable to the parallel port on the Windows computer.**
3. **Turn on the computer and the Fiery X3.**
4. **Proceed to Setup.**

To print to the parallel port, you need to set up the parallel port connection (see “Parallel Port Setup options” on page 2-13). For information on setting up printing, see *Getting Started*; for printing to the parallel port, see the *Printing Guide*.



## Chapter 2: Setting up the Fiery X3

The Fiery X3 fits into a variety of work environments. To prepare for printing at your site, you need to do some initial configuration to specify the network environment and the kind of printing you will do.

### About Fiery X3 Setup

When the copier is turned on after new system software is loaded, you (or the service technician who loads the software) choose the language you want to use for Control Panel menus and messages. After that, the Server, Network, Printer, PCL, PS, and Job Log Setups, in that order, can be configured from the Control Panel.

On Novell or Windows NT (using TCP/IP) networks, the network servers should be configured for printing to the Fiery X3 before you enter network settings on the Fiery X3. The diagrams on pages 1-5 through 1-10 give chapter references for Network Setup.

For Setup, you need a live network connection so the Fiery X3 can query the network for zones, servers, server-based queues, and other essential information. When you set an IP address, subnet mask, or gateway address for the Fiery X3 during Setup, you can allow the Fiery X3 to get these addresses automatically.

Whenever the configuration of the Fiery X3, a copier, or the network itself changes at your site, you can alter individual settings to correspond to the changed environment. Likewise, if printing needs or administrative requirements change, you can alter the corresponding settings.

**NOTE:** Changing network or port settings may require that you make changes in more than one Setup area.

## Fiery X3 Setup from the Control Panel

Setup performed from the Control Panel after powering on or rebooting the Fiery X3 configures the Fiery X3 to communicate with other devices and manage print jobs sent to it.

Setup provides these groups of options:

- Server Setup to specify system options
- Network Setup to specify all the active network systems that will transmit print jobs to the Fiery X3
- Printer Setup to specify the way print jobs and queues are managed
- PS Setup to specify PostScript settings
- PCL (Printer Control Language) Setup to specify output defaults such as font source and paper size
- Job Log Setup to specify how the Fiery X3 handles its log of printed jobs

The Setup menus also allow you to set an Administrator password and clear the jobs queued on the Fiery X3.

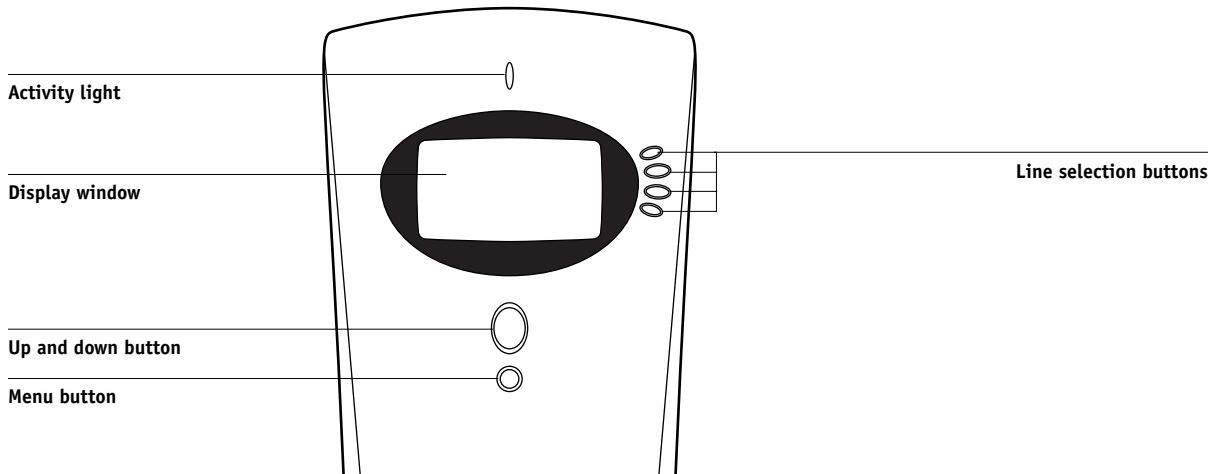
### Accessing Setup options

The Control Panel on the front of the Fiery X3 enables you to set options and view information about jobs printed to the Fiery X3.

It includes the following parts:

- Display window showing status information and options for setting up the Fiery X3
- Line selection buttons
- Up and down button
- Menu button (escape)
- Activity light that indicates normal or problem activity

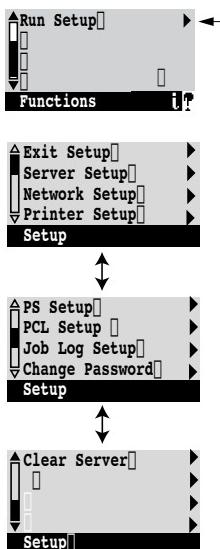
### Fiery X3 Control Panel



The *Printing Guide* describes the online display screens in detail. This chapter describes only the menus you might see when performing Setup.

**TO ACCESS SETUP WHEN THE FIERY X3 IS AT IDLE**

1. When the Fiery X3 displays the Idle screen, press the Menu button on the Control Panel to go to the Functions menu.



2. Scroll the menu and press the line selection button to choose Run Setup.

If an Administrator password has been set on the Fiery X3, you are prompted to enter it before you can perform Setup (see page 2-45).

3. Press the line selection button to choose a Setup menu or command.

Press the down button to view the other screens of the main Setup menu.

4. Choose Setups in the same order as they appear in the menu: Server Setup, Network Setup, Printer Setup, PS Setup, PCL Setup, and then Job Log Setup.

The sequence is important for first-time Setup. Later, just go directly to the menu you want to change. However, if you make changes in Network Setup, you may need to change some settings in Printer Setup as well.

**NOTE:** If you make changes in Server, Network, or Printer Setup, you need to update the system configuration by opening and saving the other Setups even if you have not changed any other settings.

Review the settings described in this chapter. For more information on Control Panel screens other than those in Setup, see the *Printing Guide*.

### About the Control Panel Setup interface

When you restart the Fiery X3 and choose Run Setup, you can select one menu after another and enter information about your Fiery X3 and your network and printing environment. In each Setup, the last line of the display window displays the name of the current Setup menu.

# 2

## Types of Setup screens

There are two types of Setup options:

### Multiple choice questions

You are given choices (for example, Yes or No, or a list of options from which to choose). Only one choice is displayed at a time, in highlighted text. The currently selected (or the default) value appears first.

Use the up and down arrow buttons to scroll through the choices, and choose OK when the correct information is displayed.

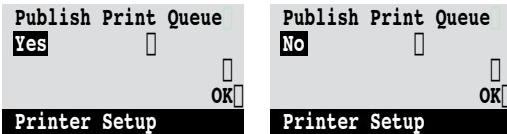
### Information entry options

You must specify the information for your site, for example, the printer name or IP address. Use the up and down buttons to scroll the alphanumeric symbols to make your selection.

The cursor position is highlighted, and two of the line selection buttons become left and right buttons. Arrows appear on the display window next to the corresponding buttons. Use these buttons to move between positions for entering information.

**NOTE:** When you enter text, enter it from left to right, as the left-arrow button acts as a delete key as well as a cursor-moving key. This is indicated in the display by the delete symbol (~~☒~~).

The following section provides three specific examples of these types of options.

**Example: Multiple choice**

Press up or down to display the other option or options.

When the setting you want is displayed, press the button beside OK to continue.

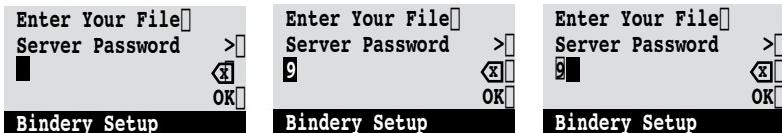
**Example: Information entry with fields**

From the starting position, press the right-arrow button to move the cursor to the right.

The next field is selected. Press up or down to change the number.

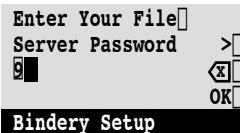


When the correct number is displayed, press the right-arrow button to move to the third field. Press the left arrow to go back and edit, or press OK to select the choice and continue.

**Example: Information entry with individual characters**

From the starting position, press up or down to enter the first character.

When the correct character is displayed, press the right-arrow button to move the cursor to the next position.



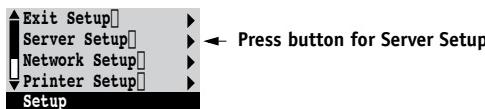
Press up or down to enter a character in the second position. The delete button erases the current character and moves the cursor to the left.

**NOTE:** If you make a mistake during Setup, you can always use the Menu button to cancel without saving changes. If you are viewing a Setup screen, pressing the Menu button cancels what you are doing in the current screen to bring you to the next higher-level menu. You may need to press Menu more than once to return to the top level for the particular Setup procedure with which you are working. Once at the top level, you can enter the current Setup again, or exit without making changes.

When you have entered all the settings or made all the changes you want, you need to save the changes. You are usually prompted to do so. If you choose Yes, your settings overwrite previous settings. If you choose No, your previous settings are retained. If necessary, the Fiery X3 reboots after you exit from the Setup menu.

## Server Setup options

The Server Setup menu lets you specify system information that pertains to the Fiery X3 itself and all users. Accessing the menu is described on page 2-2.



When you choose Server Setup, the options appear in sequence, as described below. Default values, where applicable, appear in square brackets.

### Server Name

*Default server name*

Use this option to give the Fiery X3 a name (up to 10 characters long). This is the name that will appear in the Chooser on an AppleTalk network.

If you have multiple Fiery X3 servers and give them the same name, a unique number is appended to the name that appears in the Chooser. Although this routes jobs correctly, it may be inconvenient to users and is not a recommended practice.

### System Date

Use this option to change the system date. Enter the date in the standard form for your usage: either MM/DD/YY or DD/MM/YY. The date is used on the cover page and in Job Logs.

**System Time**

Use this option to change the system time. Enter the time based on the 24-hour clock in the form HH:MM (Hours:Minutes). The time is used on the cover page and in Job Logs.

**Print Start Page****Yes/No [No]**

Use this option to specify whether the Fiery X3 should print a start page every time it is powered on or rebooted. The start page displays information about the Fiery X3, including the server name, current date, and time.

**Use Character Set****Macintosh/DOS/Windows [Windows]**

Use this option to specify whether the Control Panel should use the Macintosh, DOS, or Windows character set for displaying filenames. This is important if filenames include accented or composite characters (such as é, ü, or æ).

For mixed-platform networks, choose the setting that gives the best overall representation of the special characters you use.

**Enable Printed Queue****Yes/No [Yes]**

Select Yes if you want to enable the Printed queue, which creates a storage location on the Fiery X3 disk for recent jobs that were printed from the Print queue. Users with access to Fiery WebSpooler can reprint their own jobs from the Printed queue without sending them to the Fiery X3 again. If you select No, jobs are deleted from the Fiery X3 disk immediately after they are printed.

**Jobs Saved in Printed Queue****1-99 [10]**

This option appears only if Enable Printed Queue is set to Yes. Specify the number of jobs to be stored in the Printed queue. Note that jobs in the Printed queue take up space on the Fiery X3 hard disk.

**Clear Each Scan Job****After 1 week/ After 1 day/Manually/Now [After 1 day]**

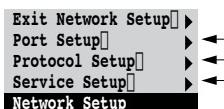
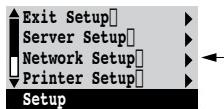
Specify how you want to remove scanned data from the HDD. If you select Manually, the scanned data remains on the HDD until specifically deleted, or until all scanned jobs are cleared by the Administrator.

**Save Changes****Yes/No [Yes]**

Select Yes to activate any changes made in the Server Setup; select No to return to the main Setup menu without making any changes.

## Network Setup options

Network Setup configures the Fiery X3 to receive print jobs over the network systems that will be used at your site.



In the Setup menu, choose Network Setup.

In Network Setup, you specify network addresses and names to be used by workstations, servers, and the Fiery X3 when they communicate with each other.

The Network Setup menu includes three submenus that let you choose port types, protocols, and network services. You must perform Port Setup and enable at least one port.

For each item you enable, you are prompted to enter settings for that item. Default values, where applicable, appear in square brackets.

You need to display and select options only for the network systems that are currently used at your site. If your network requirements change, you can change the Network Setup at any time.

If the Fiery X3 is configured to enable more than one protocol, it automatically switches to the correct protocol when it receives a print job. When the parallel port and one or two network ports are enabled, print jobs can be received over all of those ports at the same time.

The available network types, and the Setup areas that pertain to them, are summarized in the following tables.

<b>For this Network or Connection Type</b>	<b>Use this Port Setup</b>	<b>Use this Protocol Setup</b>	<b>Use this Service Setup</b>
AppleTalk over Ethernet	Ethernet Setup	AppleTalk Setup	AppleTalk printing (PAP) is enabled automatically
TCP/IP over Ethernet	Ethernet Setup	TCP/IP Setup: Ethernet Setup	LPD Setup Web Services Setup Windows Setup Port 9100 Setup IPP Setup
IPX/SPX over Ethernet	Ethernet Setup	IPX/SPX Setup	PServer Setup (NDS, Bindery, or both)
Parallel	Parallel Port Setup	—	—

If the Token Ring option is installed, you have these additional options:

<b>For this Network or Connection Type</b>	<b>Use this Port Setup</b>	<b>Use this Protocol Setup</b>	<b>Use this Service Setup</b>
TCP/IP over Token Ring	Token Ring Setup	TCP/IP Setup: Token Ring Setup	LPD Setup Web Services Setup Windows Setup
IPX/SPX over Token Ring	Token Ring Setup	IPX/SPX Setup	PServer Setup (NDS, Bindery, or both)

---

#### TO ACCESS NETWORK SETUP OPTIONS

**1. Confirm that the network cable is connected to the Fiery X3.**

During Network Setup, the Fiery X3 queries the network for zones, servers, and server-based queues. If you perform Network Setup without a connected and functioning network, default settings are used that may not meet your needs.

**2. Choose Network Setup from the main Setup menu.**

**3. Choose Port Setup from the Network Setup menu.**

4. To use Ethernet, choose Ethernet Setup from the Port Setup menu, and enter the appropriate settings.
5. If the Token Ring option is installed, choose Token Ring Setup and enter the appropriate settings.
6. To print to the parallel port, choose Parallel Port Setup from the Port Setup menu, and enter the appropriate settings.
7. When you have finished entering port settings, choose Exit Port Setup and then choose Protocol Setup.
8. Enter the appropriate settings for the protocol or protocols you will use.
9. When you have finished entering protocol settings, choose Exit Protocol Setup and then choose Service Setup.
10. Enter the appropriate settings for the services you will use.

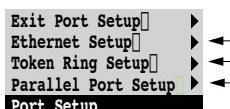
The options are described in detail in the following pages.

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#### TO EXIT NETWORK SETUP

1. When you have finished entering service settings, choose Exit Service Setup, then Exit Network Setup.
2. Choose Yes when prompted to save changes.
3. From the main Setup menu, choose another Setup or choose Exit Setup.

#### Port Setup options



You can enable Ethernet or Token Ring (if the Token Ring option is installed), but not both at the same time. You can also enable parallel communication simultaneously with either Ethernet or Token Ring. To configure the Fiery X3, choose each port type you use and enter the settings for that port. Since network Setups are nested, the names of higher-level menus are shown in this chapter to the left of each menu heading.

Network Setup  
Port Setup



### Ethernet Setup

#### Enable Ethernet

Yes/No [Yes]

Select Yes if you have Ethernet cabling connected to the Fiery X3.

#### Ethernet Speed

Auto Detect/100 Mbps/10 Mbps [Auto Detect]

Select Auto Detect if your network environment is mixed, or select the speed of the network to which the Fiery X3 is attached.

Network Setup  
Port Setup



### Token Ring Setup

#### Enable Token Ring

Yes/No [No]

Select Yes if the Fiery X3 is to be connected to a Token Ring network.

#### Token Ring Speed

4 Mbps/16 Mbps/Auto Detect [Auto Detect]

Select Auto Detect if your network environment is mixed, or select the speed (4 Mbps or 16 Mbps) of the network to which the Fiery X3 is attached.

#### Max. Frame Size (bytes)

4202/2154/1130/632 [4202]

Select the maximum frame size recommended by the network administrator at your site. If you are uncertain of the setting to use, select the default value (4202).

#### Enable Source Routing

Yes/No [No]

Network Setup  
Port Setup

### Parallel Port Setup options

You must enable the parallel port in order to enter the Parallel Port Setup options and print to the parallel port. For information about setting up the Windows computer for parallel port printing, see *Getting Started*.

- ▶
- ▶ **Parallel Port Setup**

**Enable Parallel Port**  
**Yes/No [No]**

Select Yes if you want to print through the parallel port. You can connect a single Windows computer to the parallel port and print directly to the Fiery X3.

**Port Timeout in Seconds**  
**5-60 [10]**

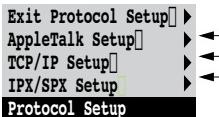
This option appears only if Enable Parallel Port is set to Yes. Your setting determines how long the Fiery X3 waits without receiving data from the parallel port before deciding that the current job is complete. Until the timeout, the Fiery X3 cannot receive new jobs through the parallel port, but it can continue to receive network print jobs.

**Ignore EOF Character**  
**Yes/No [Yes]**

This option appears only if Enable Parallel Port is set to Yes. This option specifies that the Fiery X3 should ignore end-of-file (EOF) messages in a file. This option must be set to Yes to print PostScript files in binary format (not ASCII); under normal circumstances, it should be set to No. When this option is set to Yes, the Fiery X3 uses the parallel port timeout value to determine when the end of the file has been reached.

When you have configured the port options, choose another port type, or choose Exit Port Setup and proceed to Protocol Setup.

## Protocol Setup options



Network Setup  
Protocol Setup

To configure the Fiery X3, choose each protocol and enter the settings for that protocol. You can enable AppleTalk, TCP/IP, and IPX/SPX communication simultaneously.

### AppleTalk Setup

**Enable AppleTalk**  
**Yes/No [No]**

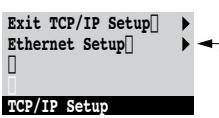
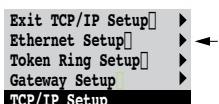
Select Yes if you have an AppleTalk network connected to the Fiery X3. This setting enables the Fiery X3 to communicate over AppleTalk networks.

**AppleTalk Zone**  
**List of zones**

The Fiery X3 searches the network for AppleTalk zones in your network segment. Scroll through the list to select the AppleTalk zone in which you want the Fiery X3 to appear. If your segment has only one zone, the Fiery X3 is assigned to that zone automatically.

The message “No AppleTalk zone found” may mean your network has no zones, or the network cable is not connected (see page 5-4). Choose OK.

## TCP/IP Setup options



Enter the appropriate settings for the network type you use (Ethernet or Token Ring). Token Ring Setup appears as an option only if you have enabled Token Ring in Port Setup. If your network uses a gateway, enter the gateway address in Gateway Setup.

For information about setting up printing with TCP/IP, see Chapter 4.

Enter the appropriate settings for Ethernet.

For information about setting up printing with TCP/IP, see Chapter 4.

To configure the Fiery X3 for TCP/IP, choose TCP/IP Setup.

Enter the appropriate settings for the network type you use (Ethernet or Token Ring). Token Ring Setup appears as an option only if you have enabled Token Ring in Port Setup. If your network uses a gateway, enter the gateway address in Gateway Setup.

For information about setting up the network environment for printing with TCP/IP, see Chapter 4.

When you set an IP address, subnet mask, or gateway address for the Fiery X3 during Setup, you can allow the Fiery X3 to get these addresses automatically from a DHCP, BOOTP, or RARP server. First, turn on or reboot the Fiery X3 and allow it to reach Idle. Next, make sure the DHCP, BOOTP, or RARP server is running. Finally, perform Fiery X3 Setup.

### TCP/IP Setup with Ethernet

- ▶ Network Setup
- ▶ Protocol Setup
- ▶ TCP/IP Setup

#### Ethernet Setup

##### Enable TCP/IP for Ethernet Yes/No [Yes]

Select Yes if you have a TCP/IP network connected to the Fiery X3 over Ethernet cabling. You must enable TCP/IP for Ethernet to use the Fiery WebTools over Ethernet.

**NOTE:** If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from workstations using TCP/IP protocols.

##### Enable Auto IP Configuration Yes/No [Yes]

Select Yes to allow the Fiery X3 to obtain its Ethernet IP address by searching the network. Depending on your network and the protocol you select in the following option (DHCP, BOOTP, or RARP), the IP address can change. Select No to assign the Fiery X3 a static IP address, which will not change. If you select No, you proceed to the IP Address option, where you manually set the IP address.

**Select protocol****DHCP/BOOTP/RARP [DHCP]**

This option appears only if you answered Yes to Enable Auto IP Configuration. Select the protocol over which the Fiery X3 should search for its IP address. Both DHCP and BOOTP allow the Fiery X3 to obtain the Ethernet IP address and Subnet Mask automatically. RARP obtains only the Ethernet IP address.

Depending on your network, the Fiery X3 might be assigned a different address after you reboot the Fiery X3. With the DHCP setting, the Fiery X3 can be assigned a different address even if it is not rebooted. Make sure the network is already configured properly for the protocol you select.

**IP Address****[127.0.0.1]**

Enter the Fiery X3 IP address for Ethernet. This IP address, unlike an IP address set automatically, remains the same if you reboot the Fiery X3. You must change the default to a valid address for your network.

**Subnet Mask****[255.255.255.0]**

This option lets you modify the subnet mask for printing with TCP/IP over Ethernet. The subnet mask is set to 255.255.255.0 by default. To set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

**NOTE:** Confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

**Get Gateway Address Automatically  
Yes/No [No]**

Use this option to get the gateway address automatically for printing with TCP/IP. This option appears only if you selected DHCP or BOOTP as the protocol (see page 2-16).

If you select a DHCP or BOOTP protocol and later change it to RARP, you must return to Gateway Setup and set Get Gateway Address Automatically to No. You can then set the address manually. This is because RARP does not support automatic assignment of the gateway address.

**Gateway Address  
[127.0.0.1]**

This option appears only if you answered No to Get Gateway Address Automatically, or if you selected RARP as the protocol.

Set the gateway address for printing with TCP/IP. After setting the gateway address, choose Exit TCP/IP Setup and proceed to Service Setup.

## TCP/IP Setup with Token Ring

Enable TCP/IP for Token Ring, and enter the IP address and subnet mask. Then, if your TCP/IP network has a gateway, and users outside the gateway plan to print to the Fiery X3 using TCP/IP, choose Gateway Setup and enter the gateway address (see page 2-20).

Network Setup  
Protocol Setup  
TCP/IP Setup



### Token Ring Setup

#### Enable TCP/IP for Token Ring

Yes/No [No]

Select Yes if you have a TCP/IP network connected to the Fiery X3 over Token Ring. This also enables use of the Fiery WebTools with Token Ring.

**NOTE:** If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from workstations using TCP/IP protocols.

#### Enable Auto IP Configuration

Yes/No [No]

Select Yes to allow the Fiery X3 to obtain its Token Ring IP address. Depending on your network and the protocol you select in the following option (DHCP, BOOTP, or RARP), the IP address can change. Select No to assign the Fiery X3 a static IP address, which will not change. If you select No, you proceed to the IP Address option, where you manually set the IP address.

#### Select protocol

DHCP/BOOTP/RARP [DHCP]

This option appears only if you answered Yes to Enable auto IP configuration. Select the protocol over which the Fiery X3 should search for its IP address. Both DHCP and BOOTP allow the Fiery X3 to obtain the Token Ring IP address and Subnet Mask automatically. RARP obtains only the Token Ring IP address.

Depending on your network, the Fiery X3 might be assigned a different address after you reboot the Fiery X3. With the DHCP setting, the Fiery X3 can be assigned a different address even if it is not rebooted.

Make sure the network is already configured properly for the protocol you select.

**IP Address****[127.0.0.1]**

Enter the Fiery X3 IP address for Token Ring. This IP address, unlike an IP address set automatically, remains the same if you reboot the Fiery X3. You must change the default to a valid address for your network.

**Subnet Mask****[255.255.255.0]**

This option lets you modify the subnet mask for printing with TCP/IP over Token Ring. The subnet mask is set to 255.255.255.0 by default. To set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

**NOTE:** Confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

Network Setup  
Protocol Setup  
TCP/IP Setup

### Gateway Setup options

If your TCP/IP network has a gateway, and users outside the gateway print to the Fiery X3 using TCP/IP, choose Gateway Setup and enter the gateway address.

- ▶
- ▶
- ▶ **Gateway Setup**

**Get Gateway Address Automatically**  
**Yes/No [No]**

Use this option to get the gateway address automatically for printing with TCP/IP. This option appears only if you selected DHCP or BOOTP as the protocol (see page 2-16).

If you select a DHCP or BOOTP protocol and later change it to RARP, you must return to Gateway Setup and set Get Gateway Address Automatically to No. You can then set the address manually. This is because RARP does not support automatic assignment of the gateway address.

**Gateway Address**  
**[127.0.0.1]**

This option appears only if you answered No to Get Gateway Address Automatically, or if you selected RARP as the protocol.

Set the gateway address for printing with TCP/IP. After setting the gateway address, proceed to set up Token Ring, if applicable, or choose Exit TCP/IP Setup and proceed to Service Setup.

Set the gateway address for printing with TCP/IP. After setting the gateway address, choose Exit TCP/IP Setup and proceed to Service Setup.

### IPX/SPX Setup options

To configure the Fiery X3 for IPX/SPX protocols, choose IPX/SPX Setup from the Protocol Setup menu.

#### Enable IPX Auto Frame Type

**Yes/No [No]**

Choose Yes to select all available frame types, whether or not they are appropriate. To determine the frame types that were successfully bound, save your changes, exit Setup, and print a Configuration page. If you choose No, you proceed to Select Frame Types, where you can select frame types individually.

#### Select Frame Types

Choose Select Frame Types. You must choose at least one frame type to enable IPX/SPX protocols. The Fiery X3 supports these frame types: Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP.

The frame selection screen allows you to make multiple selections. Press the line selection button beside each frame type used on your IPX/SPX network. An asterisk (\*) appears beside each selected frame type. (Press the line selection button again to deselect a frame type.) Use the arrow keys to scroll to additional frame types. The Fiery X3 binds to each frame type as you select it.

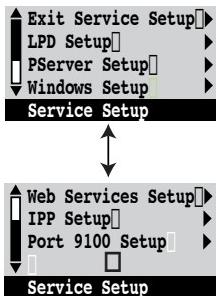
When you have selected all the frame types used, choose Exit IPX/SPX Setup.

#### Clear Frame Types

You can clear all frame types at once by choosing Exit IPX/SPX Setup, then choosing IPX/SPX Setup and selecting Clear Frame Types.

For protocols other than IPX/SPX, the frame type is automatically enabled and does not require setup, as follows:

With this protocol	And these printing services	This frame type is automatically enabled
AppleTalk	PAP (Printer Access Protocol)	Ethernet SNAP
TCP/IP with Ethernet	LPD (Line Printer Daemon)	Ethernet II
TCP/IP with Token Ring	LPD (Line Printer Daemon)	Token Ring SNAP



## Service Setup options

Network Service Setup has options for TCP/IP and IPX/SPX networks, as well as for local area Windows printing.

- LPD Setup enables lpd printing on TCP/IP networks.
- For IPX/SPX networks, PServer Setup allows you to enter the names of the Novell objects that are concerned with Fiery X3 print jobs.
- Windows Setup enables the Microsoft SMB protocol, which supports peer to peer printing, also known as Windows printing.
- Web Services Setup enables the http protocol and, therefore, use of the Fiery WebTools.
- IPP Setup enables the Internet Printing Protocol.
- Port 9100 Setup allows users to download jobs to a print connection on the Fiery X3.

PServer is a program in the Fiery X3 that services all the Novell print queues assigned to the Novell print servers you have set up for printing to the Fiery X3. When you choose PServer Setup and enable PServer, you can set up NDS (Novell Directory Services), Bindery Services, or both. NDS is used with NetWare 4.x/5.x; Bindery Services are used with NetWare 3.x or with NetWare 4.x/5.x in bindery emulation mode.

### LPD Setup

Network Setup  
Service Setup  
LPD Setup

- ▶
- ▶
- ▶ **Enable LPD**  
**Yes/No [Yes]**

Select Yes to allow lpd printing.

Network Setup  
Service Setup  
PServer Setup

### PServer Setup



**Enable PServer**  
**Yes/No [No]**

Select Yes if you have a Novell network connected to the Fiery X3.

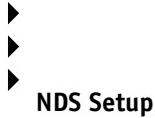
Exit PServer Setup  
NDS Setup  
Bindery Setup  
Polling Interval  
**PServer Setup**

Choose NDS Setup if your network uses NetWare 4.x/5.x in native mode. Choose Bindery Setup if your network uses NetWare 3.x or uses NetWare 4.x/5.x in bindery emulation mode.

If your network uses *both* NDS and Bindery, set up NDS first. Setting up NDS after Bindery will overwrite Bindery Setup.

If your network uses both NDS and Bindery, and uses NetWare 4.x/5.x servers in bindery emulation, note that the Fiery X3 cannot service NDS and bindery emulation servers on the same NDS tree.

Network Setup  
Service Setup  
PServer Setup



Before entering NDS settings, be sure the Fiery X3 is connected to the network and you have already configured an NDS directory tree with a Printer, a Print Server, and one or more Print Queue objects for Fiery X3 jobs (see page 4-7). To perform NDS Setup, you may need permission to browse the NDS tree. If access to the Print Server is restricted, you need a login password.

The main objective of NDS Setup is to specify the Print Server object. In addition, you can indicate the location of the Fiery X3 print queues.

Note that the terms NetWare server, Novell server, and IPX server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

**Enable NDS**  
**Yes/No [No]**

Select Yes if the NetWare servers you will use to print to the Fiery X3 are running NetWare 4.x/5.x in native mode.

**Select NDS Tree***List of trees*

Use the arrow keys to browse the list of NDS trees available to the Fiery X3. Choose OK when you have displayed the tree that contains the Printer, Print Server, and print queue objects you have previously defined for the Fiery X3.

Your new NDS tree selection automatically overwrites any previous tree selection. If you change the NDS tree selection and there are also current Bindery settings, you are alerted that they will be deleted. If you continue with NDS Setup, you can replace Bindery settings afterwards. If you do not want to continue, you can exit NDS Setup by pressing the Menu button to escape.

**Is user login needed  
to browse NDS tree?  
Yes/No [No]**

Select No if no password is required to browse the tree. You can proceed to navigate to the Print Server object (see page 2-25).

Select Yes if network permissions require that you log in to browse the NDS tree and see the Print Server object you want to select. If you select Yes, you are prompted to navigate to the User Login object.

**Navigate the NDS  
tree to the User  
Login object.**

This message is displayed if you selected Yes for the previous option. Choose OK and browse the NDS tree as described in the following paragraphs.

***NDS Tree name  
Object list, “..”***

Browsing to find the User Login object begins with the NDS tree that you selected previously (with Select NDS Tree). Use the up and down buttons to scroll a list of objects in the tree beneath the [Root] in the hierarchy, or use the navigation symbol “..” to go up one level at a time.

In each subsequent browse screen, the top line represents your current location. The second line contains:

- A list of objects in the current container directly below your current location
- The symbol “..” to go up one level

With an object selected, choose OK to travel down the tree, or choose “..” to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects directly below it.

Continue to browse the NDS tree until the User Login object is displayed in the second line. Choose OK.

#### **Enter Password**

Enter the login password for the NDS tree, using the up and down arrow buttons to enter characters, and the left and right arrow buttons to move the cursor. Choose OK.

#### **Navigate the NDS tree to the Print Server.**

Press OK to browse the NDS tree to the Print Server object.

Browsing to find the Print Server object begins with the NDS tree that you selected previously (with Select NDS Tree). In each subsequent browse screen, the top line represents your current location. The second line contains:

- A list of objects in the current container directly below your current location
- The symbol “..” to go up one level

With a container object selected, choose OK to travel down the tree, or choose “..” to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects directly below it.

When the Print Server is displayed in the second line, choose OK.

#### **Enter Print Server Password**

Enter the Print Server password, using the up and down arrow buttons to enter characters, and the left and right arrow buttons to move the cursor. Choose OK. (If no password is required, choose OK.)

**Server should look  
for print queues in:**

**Entire NDS Tree/Specified Subtree [Entire NDS Tree]**

By default, the Fiery X3 searches the entire NDS tree for Fiery X3 print queues. This option lets you restrict the search for Fiery X3 print jobs to a subtree (the Print Queue root) in which the Fiery X3 print queues have been defined. This makes the search more efficient. Select Entire NDS Tree if the tree is small. Select Specified Subtree to restrict the search and specify the subtree.

If you select Entire NDS Tree, choosing OK returns to PServer Setup. Proceed with Bindery Setup (see page 2-27), set the Polling Interval (see page 2-32), or choose Exit PServer Setup to return to the Service Setup menu.

**Browse to the root  
of the Print Queue  
subtree.**

This message is displayed if you selected Specified Subtree in the previous option. Choose OK to browse the NDS tree to the Print Queue subtree.

Browsing to find the Print Server object begins with the NDS tree that you selected previously (with Select NDS Tree). In each subsequent browse screen, the top line represents your current container. The second line contains:

- A list of objects directly below your current location
- The symbol “..” to go up one level
- The symbol “.” to select the current container object (displayed in the top line) without traveling down the tree

With an object selected, choose OK to travel down the tree, or choose “..” to go up the tree. When you select an object and choose OK, that object is then displayed on the top line, and the second line lists objects contained within.

When the container that contains print queues is displayed in the second line, choose OK. In the next screen, choose “.” and then choose OK to select the object in the top line.

When the Fiery X3 displays the container name, choose OK to return to PServer Setup.

Proceed with Bindery Setup (see page 2-27), set the Polling Interval (see page 2-32), or choose Exit PServer Setup to return to the Service Setup menu.

Network Setup  
Service Setup  
PServer Setup

### Bindery Setup options

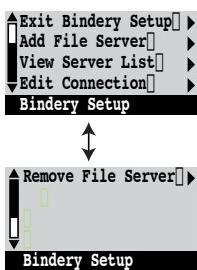


#### Bindery Setup

Use Bindery Setup if you have already configured one or more bindery servers (file servers running NetWare 3.12 or NetWare 4.x/5.x in bindery emulation) with a Print Server and a Print Queue for Fiery X3 jobs. Before entering bindery settings, be sure the Fiery X3 is connected to the network and the NetWare file server is running. You need a login name, and, if access to the file server or print server is restricted, you need a login password.

**NOTE:** The terms NetWare server, Novell server, and IPX file server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

#### Bindery Setup menu



Because you can set up more than one Novell server to handle Fiery X3 print jobs, an additional menu is displayed for this purpose. The options are:

- Add File Server—creates a new file server connection to the Fiery X3. You can set up a maximum of eight file server connections. After you have finished adding a new server, you return to the Bindery Setup menu, and you can set up another server if you wish.
- View Server List—displays the list of file servers that have already been selected to communicate with the Fiery X3.
- Edit Connection—lets you change the NetWare Print Server that will print to the Fiery X3.
- Remove File Server—lets you disconnect the Fiery X3 from a file server to which it is currently connected. Remove a file server when you want to reduce the number of connections to the Fiery X3 or re-assign the connection to a different NetWare file server.
- Exit Bindery Setup—after you added all servers, viewed a list of file servers, or removed a file server from the list.

Network Setup  
Service Setup  
PServer Setup  
Bindery Setup



### Add File Server

This option gives you two ways to add a Novell NetWare file server.

#### Select File Server

##### From List/Search by Name

You may select the file server from a scrollable list, or by a name search. Choose From List if your network does not have a large number of file servers. Select Search by Name if the number of file servers is so large that scrolling through the list would take a long time.

If you selected **From List**:

#### Add Server

##### *List of all servers*

The Fiery X3 obtains a list of NetWare file servers by querying the IPX network. Use the up and down buttons to select a NetWare file server from the list. Choose the server on which you have configured a print server and print queue to handle Fiery X3 print jobs.

If you selected **Search by Name**:

#### Enter First Letters of Server Name

Use the up and down buttons to enter the first letters of the name of the file server you want to use, and choose OK.

#### Add Server

##### *List of servers matching the search*

This option is displayed if you entered letters to search. Scroll to select the server you want from the list.

Once you have chosen a file server, the Fiery X3 immediately tries to log in as a guest without a password. If it succeeds, it skips to the NetWare Print Server option.

If you try to add a file server but all Fiery X3 connections are already being used, you are prompted to remove a file server (see “Remove File Server” on page 2-31).

**File Server Login****administrator/supervisor/Enter Login Name [supervisor]**

This option appears only if a password is required for login, or if there is no unrestricted guest account. Choose Enter Login Name to enter your own login name and password or to log in as a guest. Choose administrator or supervisor if you have those privileges.

**Enter Your Login Name****[guest]**

This option and the next only appear if you selected Enter Login Name for the File Server Login. Enter your login name or select guest.

**Enter Your File Server Password**

Enter the password for logging in to your NetWare file server.

**NetWare Print Server*****List of print servers on selected file server***

This option appears only if there is more than one print server defined on the selected Novell file server. From the list of print server names, select the name of the print server that you have configured in the NetWare utility PCONSOLE. This is the print server that will route print jobs to the Fiery X3 from computers on IPX networks.

**Enter Your Print Server Password**

This option appears only if your NetWare print server requires you to log in with a password. Enter your print server password.

Choose Add Server again until you have connected each NetWare file server you have configured for printing to the Fiery X3. When you have added all the IPX file servers for your site, choose Exit Bindery Setup.

Network Setup  
Service Setup  
PServer Setup  
Bindery Setup



#### **View Server List**

##### **Supported Servers**

This option lets you view the list of file servers currently connected to the Fiery X3, that is, servers you have added in Bindery Setup. You are notified if there are none. When you choose OK, you return to the Bindery Setup menu.

Network Setup  
Service Setup  
PServer Setup  
Bindery Setup



#### **Edit Connection**

On each connected NetWare file server, you have defined a print server to handle Fiery X3 print jobs. Use this option to change the print server assigned to the Fiery X3.

##### **Choose File Server**

###### ***File server name***

From the list of connected NetWare file servers, choose the file server whose print server you wish to change.

##### **NetWare Print Server**

###### ***List of print servers on selected file server***

Choose the name of the print server that you now wish to use. This is the print server that will route print jobs to the Fiery X3 from computers on IPX networks.

If you change your mind, press the Menu button to return to the Bindery Setup menu without making a change.

##### **Enter Your Print Server Password**

This option appears only if your NetWare print server is set up to require you to log in with a password.

The Bindery Setup menu is displayed again. You can edit other connections, choose another Bindery Setup option, or choose Exit Bindery Setup.

- Network Setup ►
- Service Setup ►
- PServer Setup ►
- Bindery Setup ►

**Remove File Server****Remove support for  
*File server name***

Allows you to select a NetWare file server from a list of connected file servers and remove the connection to it. You are notified that you have removed the connection, and the Bindery Setup menu is displayed again. If you change your mind and do not want to remove any of the file servers, press the Menu button.

You can choose another Bindery Setup option (such as adding another file server) or choose Exit Bindery Setup and proceed to set the polling interval.

- Network Setup ►
- Service Setup ►
- PServer Setup ►
- Bindery Setup ►

**Exit Bindery Setup**

Choose Exit Bindery Setup after you have viewed a list of IPX file servers, removed a file server from the list, connected all the configured NetWare file servers, or set the polling interval. After you select Exit Bindery Setup, you return to the PServer Setup menu.

### Polling Interval options

Whether you are using NDS or Bindery services, you may choose Polling Interval from the main PServer Setup menu. If you do not reset the interval, the default value of 15 seconds is used.

Network Setup  
Service Setup  
PServer Setup

- ▶
- ▶
- ▶ **NetWare Server Poll Interval**  
**1-3600 [15]**

Specify the interval, in seconds, at which the Fiery X3 communicates with the Novell print server to see if there are print jobs waiting.

**NOTE:** If you select a short interval, the amount of network traffic increases. This may slow down other network jobs.

### Windows Setup

Network Setup  
Service Setup  
Windows Setup

- ▶
- ▶
- ▶ **Enable Windows Printing**  
**Yes/No [Yes]**

Enabling Windows Printing enables SMB (Server Message Block), the file and printer sharing protocol built into Windows. Enabling SMB allows the Fiery X3 to be listed on the network so that Windows clients can print to a particular queue (Hold, Print, or Direct) on the Fiery X3 without any other networking software.

Broadcasts from SMB devices cannot pass across a router without a WINS name server. In the options that follow, you can specify whether to use a WINS name server. You can even have the Fiery X3 obtain the WINS name server IP address automatically.

For information on how to set up a Windows computer for Windows (SMB) printing, see *Getting Started*. Windows (SMB) printing runs over TCP/IP, so TCP/IP must be configured on all workstations that will use Windows (SMB) printing and on the Fiery X3 as well.

**NOTE:** Be sure the administrator configures the printer driver defaults *before* Windows NT 4.0 clients install the printer driver with Point and Print. The Fiery X3 Administrator name and Password are required during Point and Print installation if you want to change defaults for the Windows NT 4.0 printer driver.

#### Use Automatic Configuration

**Yes/No [Yes]**

This option appears if you chose DHCP or BOOTP as the protocol for automatically obtaining the IP address of the Fiery X3 (see page 2-16).

Choose Yes to have the Fiery X3 use a WINS name server and automatically obtain its IP address. After making your choice, you proceed to the Server Name option.

Choose No to proceed to the Use WINS Name Server option, where you specify whether to use a WINS name server, and then to the WINS IP Address option, where you specify its IP address.

#### Use WINS Name Server

**Yes/No [No]**

Setting up the WINS name server is outside the scope of this manual. To find out if a name server is available, contact your network administrator.

#### WINS IP Address

This option appears only if you chose Yes for Use WINS Name Server. Enter the IP address of the WINS Name Server.

#### Server Name

**Default name**

The server name is the name that will appear on the network for accessing the Fiery X3 via SMB. This name can be up to 15 characters long. The default name is the same as the server name assigned in Server Setup (see page 2-7).

#### Server Comments

Server comments (optional) can contain information about the printer. These comments are listed in the Properties of the Fiery X3 in Network Neighborhood. Comments can be up to 15 characters long.

**Set Domain name****Select from list/Enter Manually [Select from list]**

This option provides two ways to specify the workgroup or domain where you want the Fiery X3 to appear.

If you selected **Select from list**:

**Choose Domain****List of domains**

Select the workgroup or domain from the list.

If you selected **Enter manually**:

**Workgroup or Domain**

Enter the name of the workgroup or domain. For more information about entering text and characters, see “Types of Setup screens” on page 2-5.

**Web Services Setup**

Network Setup  
Service Setup  
Web Services Setup

**Enable Web Services**  
**Yes/No [No]**

Select Yes if TCP/IP is enabled on the Fiery X3 and on user workstations, and you wish to make the Fiery WebTools available to users (see page 4-16). The Fiery WebTools include Fiery WebSpooler, Status, Installer, WebDownloader, WebScan, WebSetup, and WebLink. A Java-enabled Web browser and a valid IP address are required for each user. See *Getting Started* for details on browser versions and workstation requirements.

**IPP Setup**

Network Setup  
Service Setup  
IPP Setup

**Enable IPP**  
**Yes/No [Yes]**

Select Yes to enable printing with the Internet Printing Protocol (IPP). You must enable Web Services. For information on setting up user computers to use IPP printing, see *Getting Started*.

**NOTE:** IPP Printing is supported on Windows 98/Me and Windows 2000 only.

Network Setup  
Service Setup  
Port 9100 Setup

### Port 9100 Setup

- ▶
- ▶
- ▶

**Enable Port 9100**  
**Yes/No [Yes]**

This option allows application programs to open a TCP/IP socket to the Fiery X3 at Port 9100 to download a print job.

### Port 9100 Queue

**Direct/Print Queue/Hold Queue [Print Queue]**

Specify the Fiery X3 print connection for downloading jobs to Port 9100. Only the print connections you have enabled in Printer Setup are available.

### Exit Service Setup

This returns you to the main Network Setup menu. Choose Exit Network Setup.

**Save Changes**  
**Yes/No [Yes]**

Select Yes to activate any changes made in Network Setup; select No to return to the main Setup menu without making any changes.

## Fiery X3 print connections

In Fiery X3 Printer Setup you decide how the Fiery X3 manages print jobs by deciding which printing connections should be “published” to users over the network. All published connections are constantly checked for the presence of jobs. If you do not want users to print to a connection, do not publish it.

You can publish two types of connections on the Fiery X3: the Direct connection and queues. At least one connection to the Fiery X3 must be published.

## Direct connection

Jobs are transmitted to the Fiery X3 Direct connection only when the Fiery X3 is ready to print. They remain at the sending workstation until the Fiery X3 is ready, and are processed as soon as a prior job is finished, before the next queued job is processed.

Jobs sent to the Direct connection are not stored on the Fiery X3 hard disk. The jobs appear in the Fiery WebSpooler displays of current jobs, but they cannot be selected for reprinting, moving, or deletion. Therefore, the Direct connection provides a measure of security for sensitive jobs. If you plan to download fonts to the Fiery X3 via the network, you must publish the Direct connection.

**NOTE:** You cannot use the Direct connection for lpd printing over TCP/IP. You can, however, use the Direct connection for downloading fonts.

## Queues

A queue is a storage area for print jobs. Queues are particularly useful when many print jobs are being sent to the Fiery X3. When a job is printed to a Fiery X3 queue, it is stored on the Fiery X3 hard disk rather than the user's hard disk, quickly freeing up the user's workstation.

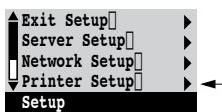
Users can print only to published connections. However, job storage areas for all queues exist on the Fiery X3, so that administrators or other users of Fiery WebSpooler can move or copy jobs to the Print or Hold queue, whether or not these queues are published.

The Fiery X3 hard disk supports up to three queues (Print, Hold, and Printed). Users may print to two of them (Print and Hold).

- **Print queue**—This is the standard Fiery X3 queue. The Fiery X3 prints jobs from the Print queue in the order in which they were received.
- **Hold queue**—The Hold queue can be used for storing jobs that will be printed at a later time, and jobs that will be printed repeatedly. The Hold queue requires some administration. In order to print a job sent to the Hold queue, the job has to be moved or copied from the Hold queue to the Print queue. Printing and deleting jobs from the Hold queue requires Fiery WebSpooler.
- **Printed queue**—The Printed queue is a job storage area on the Fiery X3 disk; it contains the most recent jobs printed from the Print queue. The Printed queue makes it convenient to reprint those jobs. A Server Setup option enables this queue and governs the maximum number of jobs retained in it at any given time (see page 2-8). Reprinting jobs in this queue requires Fiery WebSpooler.

## Printer Setup options

Printer Setup configures the connections and printing behavior associated with a particular printing device.



1. **In the main Setup menu, choose Printer Setup.**
2. **Enter the settings appropriate to the network printing environment.**
3. **When you have finished, save changes.**

Printer Setup includes:

- Publishing the Direct connection and Print and Hold queues
- Specifying the default page description language
- Specifying the Fiery X3 connection for parallel jobs when a parallel connection is enabled

In the list of options that follows, default values, where applicable, appear in square brackets.

**Publish Direct Connection****Yes/No [Yes]**

This option enables users to print (or download) jobs to the Fiery X3 without spooling. Jobs printed to the Direct connection are not saved in the Printed queue.

If you plan to download fonts to the Fiery X3, you must publish the Direct connection.

**Publish Print Queue****Yes/No [Yes]**

This option enables users to print (or download) jobs to the Print queue. Jobs printed to the Print queue are spooled to the Fiery X3 disk and printed on a first-in, first-out basis. Only the connections published in Printer Setup are available to users.

- To print to the Fiery X3 over a TCP/IP network, you must publish either (or both) the Print queue and the Hold queue.
- To print to the Fiery X3 over the parallel port, you must publish a queue or publish the Direct connection.

**Publish Hold Queue****Yes/No [Yes]**

Use this option to enable users to print (or download) jobs to the Hold queue. Jobs in the Hold queue can be printed only by copying or moving them to the Print queue with Fiery WebSpooler.

**Personality****Auto/PCL/PostScript [Auto]**

In PCL or PostScript mode, the Fiery X3 is restricted to PCL or PostScript jobs, respectively. Jobs sent to the Fiery X3 that do not match the personality selected on the Fiery X3 are not printed. In Auto mode, the Fiery X3 switches to the appropriate page description language for each job. See “PCL Setup options” on page 2-41 and “PS Setup options” on page 2-39 for more information. Also see the *Printing Guide*.

**Save Changes****Yes/No [Yes]**

Select Yes to activate any changes made in the Printer Setup; select No to return to the main Setup menu without making any changes.

## PS Setup options

PS (PostScript) Setup options allow you to set defaults for Fiery X3 behavior. Most of these defaults can be overridden from within an application.

---

**TO ACCESS POSTSCRIPT SETUP OPTIONS**

1. In the main Setup menu, choose PS Setup.
2. Enter the options appropriate to the printing requirements at the site.
3. When you have finished, save changes.

In the list of options that follows, default values, where applicable, appear in square brackets.

**Default Paper Sizes****US/Metric [US in the United States, Metric elsewhere]**

Specify whether to print on US paper sizes (for example, letter, legal, tabloid), or Metric paper sizes (for example, A4, A3) by default. When no page size is defined within a PostScript file, jobs are printed on Letter paper if you selected US, or A4 paper if you selected Metric.

**Convert Paper Sizes****No Letter/11x17->A4/A3 A4/A3->Letter/11x17 [No]**

Specify whether to convert paper sizes in documents automatically to the default paper sizes specified. For example, if you select Ltr/11x17->A4/A3, a letter size document is automatically printed on A4 paper. If you select No, the Fiery X3 prints the document only if it finds a media source in the size specified by the file.

**Print Cover Page****Yes/No [No]**

Use this option to specify whether the Fiery X3 prints a cover (job summary) page at the end of each print job. If you select Yes, each print job is followed by a page containing the name of the user who sent the job, the document name, the server name, the time the job was printed, the number of pages printed, and the status of the job. If a PostScript error occurred and the Print to PS Error option is set to Yes, the status entry will be the PostScript error message.

**Allow Courier Substitution****Yes/No [Yes]**

Specify whether to substitute Courier for fonts that are unavailable when you download PostScript files to the Fiery X3, or when you print a document for which you do not have the corresponding printer font. If this option is set to No, jobs with fonts that are not available on the Fiery X3 hard drive generate a PostScript error and do not print.

**Print to PS Error****Yes/No [No]**

Use this option to specify whether the Fiery X3 should print the available portion of a print job when it encounters a PostScript error. Select Yes to print the portion of the job that was processed before the error occurred; select No to cancel the print job entirely when a PostScript error is encountered. Leave this option at No unless you encounter printing problems.

**Save Changes****Yes/No [Yes]**

Select Yes to activate any changes made in PS Setup; select No to return to the main Setup menu without making any changes.

## PCL Setup options

PCL (Printer Control Language) printer drivers are provided with the Fiery X3 on the User Software CD. PCL Setup allows you to set defaults to control printer output. These defaults can be overridden by the user from within an application, but they determine how a job will be printed in the absence of other information.

**NOTE:** PCL printing is supported for Windows computers only. Mac OS computers must use the PostScript driver.

---

### To ACCESS PCL SETUP OPTIONS

1. In the main Setup menu, choose PCL Setup.
2. Enter the options appropriate to the printing requirements at the site.
3. When you have finished, save changes.

In the list of options that follows, default values, where applicable, appear in square brackets.

#### **Paper Size**

**Letter/A4/11x17/A3 [Letter in the United States, A4 elsewhere]**

This option sets the size of the print area on the paper, not the size of the paper itself.

#### **Default Orientation**

**Portrait/Landscape [Portrait]**

This option determines whether the text or image will be oriented along the short edge of the paper (portrait) or along the long edge of the paper (landscape).

#### **Form Length (lines)**

**5-128 [60]**

This option sets the number of lines to be printed per page.

#### **Font Size (pt)**

**4.0-999.75 [12.00]**

When the number selected in Font Number represents a proportionally spaced scalable font, the Font Size option appears, allowing you to determine the point size (height) of the default font.

**Font Pitch (char/in)****0.44-99.99 [10.00]**

When the number selected in Font Number represents a fixed pitch scalable font, the Font Pitch option appears, allowing you to determine the width of scalable type. Pitch is measured by characters per inch, so 10-pitch type fits ten characters per inch.

**Symbol Set****ASCII/Roman-8/ECMA-94 L1/PC-8... [Roman-8]**

This option lets you choose the symbol set that best matches the needs of users printing to the Fiery X3.

**Font Number****0-999 [0]**

The font number designates the default font for the Fiery X3.

To determine font numbers, print the internal PCL Font List. At the Control Panel, press the Menu button to access the Fiery X3 main menu. Choose Functions, select Print Pages, and press PCL Font List. The standard fonts are listed in order. The font numbers, however, are not displayed.

**Paper Size for System Pages****US/Metric [US in United States, Metric elsewhere]**

This option sets the size of the print area on the paper, not the size of the paper itself. System pages are pages that you can print from the Control Panel. They include PS Test Page, PCL Test Page, Configuration, Job Log, PS Font List, and PCL Font List. For information about how to print these pages, see page 2-46.

**Save Changes****Yes/No [Yes]**

Select Yes to activate any changes made in PCL Setup; select No to return to the main Setup menu without making any changes.

## Administrative functions in the Setup menu

The remaining options in the Setup menu allow you manage print jobs but are not required for printing:

- **Job Log Setup** allows you to specify whether the Fiery X3 prints and clears its log of printed jobs automatically. See the next section for details.
- **Change Password** enables you to create or change an administrator password on the Fiery X3 so that casual users cannot enter the Setup menus and change Fiery X3 settings without permission. In addition, an administrator password controls remote job management functions via Fiery WebSpooler. A password created using the Setup menu prevents Fiery X3 users from reprinting print jobs, moving print jobs (changing their priority or their queue), and deleting or configuring jobs other than their own. See the *Printing Guide* for details.

The administrator password also controls printer driver defaults for printer drivers installed with Point and Print on Windows NT 4.0 clients. For information on installing printer drivers with Point and Print, see *Getting Started*.

- **Clear Server** clears all queued print jobs from the server—jobs in the Fiery X3 Print, Hold, and Printed queues. The Job Log is cleared at the same time. If an administrator password has been set, unauthorized users will not see this command (or any of the administrative or Setup options).

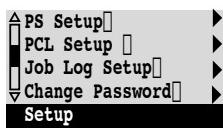
### Job Log Setup options

The Job Log is a record of all jobs processed or printed on the Fiery X3, whether they originate from a user workstation, a networked server, the Fiery X3, or a computer attached to the parallel port. The Job Log can be printed at any time from the Fiery X3 or remotely from a workstation running Fiery WebSpooler.

The printed Job Log lists accounting information about each job including user name, document name, time and date printed, and number of pages. Users printing from Windows 9x/Me and Mac OS computers can also enter job-specific notes that appear in the Job Log. See the *Printing Guide* for details.

By default, the Job Log is not printed or cleared automatically. You can change these defaults in Job Log Setup. You can also clear the Job Log from Fiery WebSpooler.

---

**TO ACCESS JOB LOG SETUP OPTIONS**

1. Scroll the main Setup menu and choose Job Log Setup.
2. Enter the options as described in the following section.
3. When you have finished, save changes.

Default values for the following options, where applicable, appear in square brackets.

**Auto Print Job Log Every 55 Jobs****Yes/No [No]**

Use this option to specify whether you want the Fiery X3 to print the Job Log after every 55 jobs. Set the Job Log for automatic printing if accounting for each printed page is important at your site.

**Auto Clear Job Log Every 55 Jobs****Yes/No [No]**

Use this option to specify whether to clear the Job Log after every 55 jobs. If you do not enable this option, and do not clear the Job Log from the Fiery X3 or from Fiery WebSpooler, the Fiery X3 saves a record of all jobs.

**NOTE:** In addition to Auto Clearing or manual clearing through Fiery WebSpooler, the Job Log (together with all queued jobs) is also cleared when you choose Clear Server from the main Setup menu, when system software is reinstalled, or when a new version of system software is installed on the Fiery X3.

**Job Log Page Size****Tabloid/A3 Letter/A4 [Tabloid/A3]**

Select the paper size for printing the Job Log. Regardless of page size, 55 jobs are listed on a page. The paper size used depends on the Default Paper Sizes setting in PS Setup. If the Default Paper Sizes setting is US, the Job Log is printed on tabloid or letter size paper, with tabloid the default.

**Save Changes****Yes/No [Yes]**

Select Yes to activate any changes made in Job Log Setup; select No to return to the main Setup menu without making any changes.

## Change Password

Change Password enables you to set or change the Administrator password for the Fiery X3. This password determines whether a user can modify the Setup options.

When the Fiery X3 is installed, there is no password. If you do not create an Administrator password, users are not required to enter a password to modify Setup.

If an Administrator password has been set previously, you are required to enter it right after Start Up, when you choose Run Setup. Use the up and down buttons to select the characters and the left and right arrows to move between them (see page 2-4).

---

### TO CHANGE THE FIERY X3 PASSWORD

1. Scroll the main Setup menu and choose Change Password.
2. Enter and confirm the password as described in the following section.

#### New Password

The password can be any combination of letters and numbers up to 19 characters. Choose OK when you are done. Be sure to keep track of the password.

**NOTE:** The only way to remove a password that you cannot remember is to reinstall system software.

#### Verify New Password

Enter the new password again exactly as before to verify that you have entered it correctly. The new password is effective until you change it again.

## Clear Server

Clear Server enables you to clear all queued print jobs from the Fiery X3—jobs in the Fiery X3 Print, Hold, and Printed queues. The Job Log is cleared at the same time. If you keep Job Logs, be sure to print or export the Job Log before you choose Clear Server.

Scroll the main Setup menu and choose Clear Server. You are asked to confirm your selection. Jobs can also be deleted, individually or as a group, from Fiery WebSpooler.

## Exit Setup

Choose Exit Setup from the main Setup menu when you have finished making Setup changes. The Fiery X3 will reboot. All changes will be saved on restart.

## Printing the Configuration page

The Configuration page lists all the settings in effect for the current Setup. After you have performed Setup, print a Configuration page to confirm your settings.

---

### TO PRINT THE CONFIGURATION PAGE

1. **At the Control Panel, press the Menu button to access the Functions menu.**
2. **Choose Print Pages.**  
The Control Panel displays the pages you can print. To see the remaining types of pages, scroll down using the down arrow button.
3. **Select Configuration.**

Post the current Configuration page near the Fiery X3 for quick reference. Users need the information on this page, such as the current printer default settings.

## Chapter 3: Setting up the Fiery X3 from a Windows Computer

After you have performed initial Setup (Server, Network, and Printer Setup) from the Control Panel, you can complete or change most Setup options from a Windows computer.

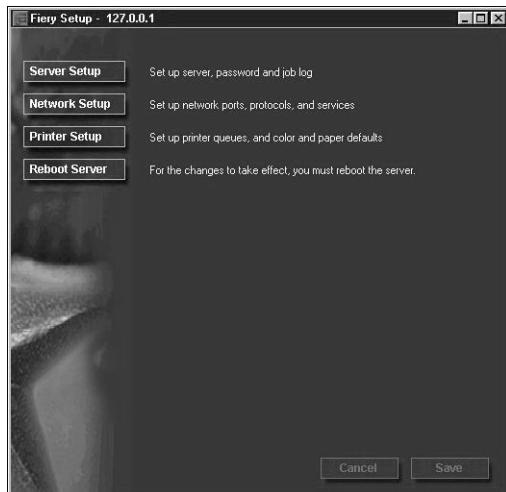
### Accessing Setup

You can access Fiery X3 Setup from Fiery WebSetup.

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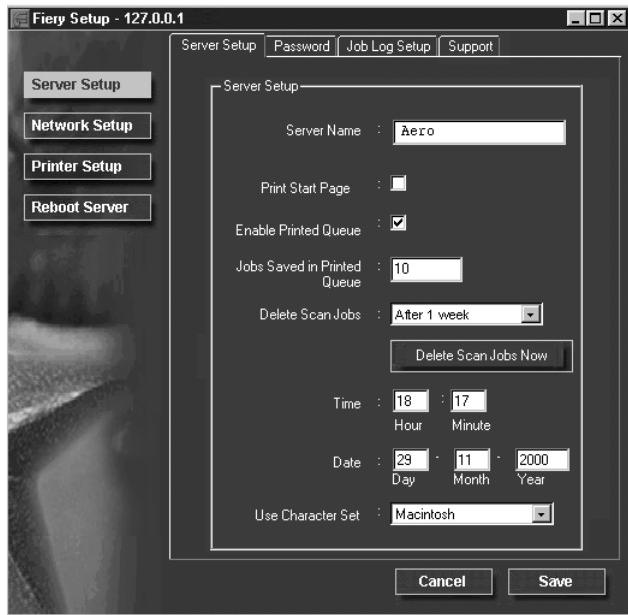
#### TO ACCESS FIERY WEBSETUP

1. Start your Internet browser application and enter the IP address of the Fiery X3.
2. Log in as Administrator.
3. When the Fiery X3 home page appears, click the WebSetup button.



## Server Setup

From this window, you can access Server Setup, Passwords, Job Log Setup, and Support.



### Server Setup

**Server Name**—Specify a name for the Fiery X3. This is the name that appears in the Chooser on an AppleTalk network.

**NOTE:** Do not use the device name (65BW-M Pro) as the server name. Also, if you have more than one Fiery X3, do not give them the same name. Windows NT does not support two computers with the same name in the same workgroup or domain.

**Print Start Page**—Specify whether the Fiery X3 should print a start page when it is turned on or rebooted. The Start Page displays information about the Fiery X3, including server name, the current date and time, amount of memory installed, last calibration date, network protocols enabled, and print connections published.

**Enable Printed Queue**—Specify whether to enable the Printed Queue, a storage location on the Fiery X3 disk for recently printed jobs. You can reprint jobs from the Printed queue without sending them to the Fiery X3 again. If the Printed queue is not enabled, jobs are deleted from the Fiery X3 disk immediately after they are printed.

**Jobs Saved in Printed Queue**—Specify the number of jobs to be stored in the Printed Queue. Jobs in the Printed queue take up space on the Fiery X3 hard disk.

**Date & Time**—Specify the system date and time, which are used on the cover page and on Job Logs.

**Delete Scan Jobs**—Specify how often to delete scan jobs from the Fiery X3 hard disk. Use the “Delete Scan Jobs Now” button to delete scan jobs now.

**Use Character Set**—Specify whether the Control Panel and the job management tools should use the Macintosh, DOS, or Windows character set for displaying filenames. This is important if a filename includes accented or composite characters (such as é or æ). For mixed-platform networks, select the setting that gives the best overall representation of the special characters you use.

## Passwords

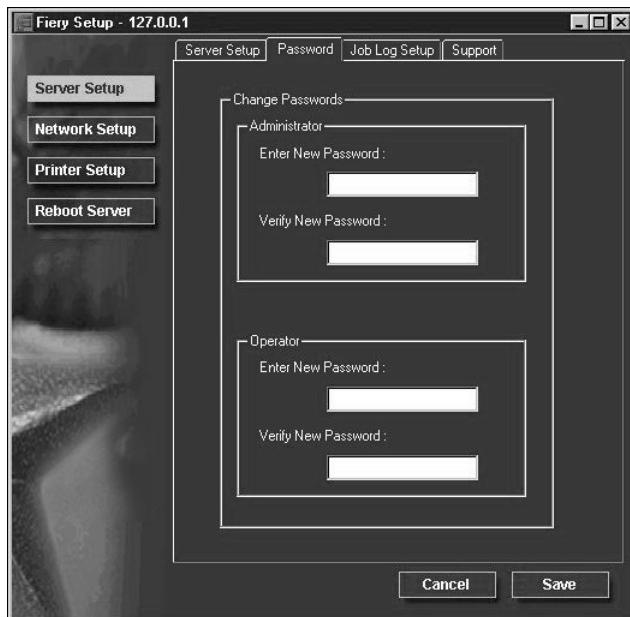
You can set, change, and remove passwords for the Fiery X3. Keep careful track of the passwords you set for each.

**Administrator**—Controls access to Setup; Administrator privileges also include Operator privileges.

**NOTE:** The administrator password also controls printer driver defaults for printer drivers installed with Point and Print on Windows NT 4.0 clients. For information on installing printer drivers with Point and Print, see *Getting Started*.

**Operator**—Controls access to job management functions via the job management tools.

By default, *no* passwords are set. If you do not specifically set passwords, all users will have access to important functions such as Setup (including setting passwords) and job control. It is strongly recommended that you set at least an Administrator password to protect the Fiery X3 from unauthorized changes to Setup.



---

#### TO SET OR CHANGE A PASSWORD

1. Select the password you want to change.
2. Type the password in both the Enter New Password and the Verify New Password fields.  
Passwords are case-sensitive and can be any combination of letters and numbers up to 19 characters. You must enter the password *exactly* the same way both times. The new password remains in effect until you change it again.

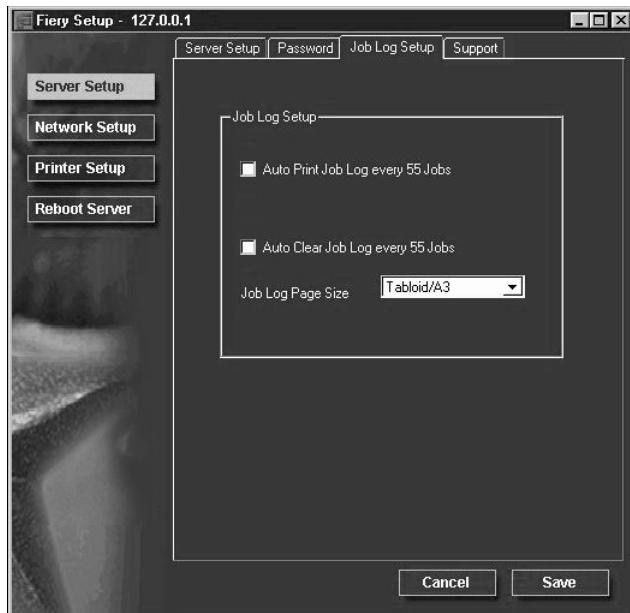
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#### TO REMOVE A PASSWORD

1. Select the password you want to delete.
2. Delete the asterisks (\*) in both the Enter New Password and the Verify New Password fields.

If you forget the Administrator password, contact your authorized service representative to reinstall Fiery X3 system software. This clears the Administrator password and allows you to set a new one.

## Job Log Setup



**Auto Print Job Log Every 55 Jobs**—Specify whether the Fiery X3 prints the Job Log after every 55 jobs. The Job Log lists the last 55 jobs processed on the Fiery X3, with accounting information about each one, including user name, document name, time and date printed, number of pages, and other job information.

**Auto Clear Job Log Every 55 Jobs**—Specify whether the Fiery X3 clears the Job Log after every 55 jobs. If you do not turn on this option, the Fiery X3 saves a file containing a record of all jobs ever printed. Since this file takes up space on the Fiery X3 hard disk, clearing the Job Log frees up additional disk space.

You can clear the Job Log manually at any time from the job management tools. The Job Log is also cleared when you clear the Fiery X3 with the Clear Server command.

**Job Log Page Size**—Select the size of paper to print the Job Log on.

## Support

Use the Support tab to enter names, phone numbers, and e-mail addresses of contact people at your organization who provide support for the Fiery X3 and the copier.



## Network Setup

Network Setup configures the Fiery X3 to receive print jobs over the networks that are used at your site. If the Fiery X3 is configured to enable more than one protocol, it automatically switches to the correct protocol when it receives a print job. When the parallel port and one or two network ports are enabled, print jobs can be received over all of ports at the same time.

The available network types, and the setups that you use with them, are summarized in the following tables.

<b>For this Network or Connection Type</b>	<b>Use this Port Setup</b>	<b>Use this Protocol Setup</b>	<b>Use this Service Setup</b>
AppleTalk over Ethernet	Ethernet Setup	AppleTalk Setup	AppleTalk printing (PAP) is enabled automatically. Web Services (if TCP/IP is also enabled)
TCP/IP over Ethernet	Ethernet Setup	TCP/IP Setup: Ethernet Setup	Web Services lpr printing is enabled automatically.
IPX/SPX over Ethernet	Ethernet Setup	IPX/SPX Setup	PServer (NDS, Bindery, or both) Web Services (if TCP/IP is also enabled)
Parallel	Parallel Port Setup	—	—

If the Token Ring option is installed, you have the following additional options:

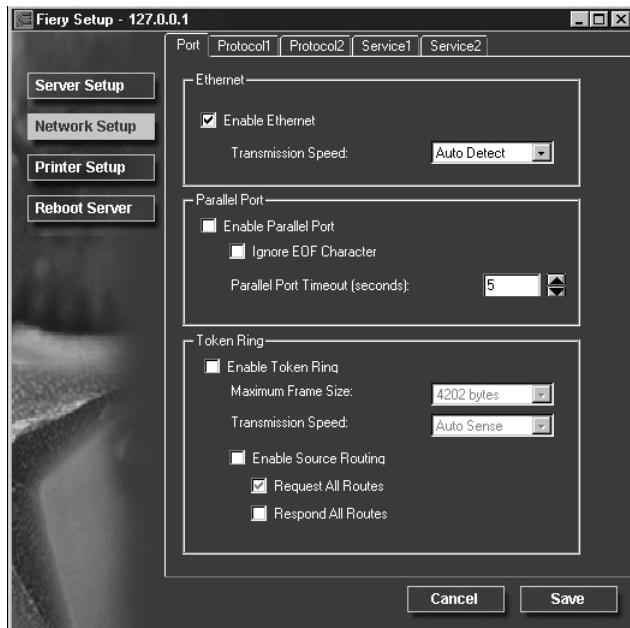
<b>For this Network or Connection Type</b>	<b>Use this Port Setup</b>	<b>Use this Protocol Setup</b>	<b>Use this Service Setup</b>
TCP/IP over Token Ring	Token Ring Setup	TCP/IP Setup: Token Ring Setup	Web Services
IPX/SPX over Token Ring	Token Ring Setup	IPX/SPX Setup	PServer (NDS, Bindery, or both) Web Services (if TCP/IP is also enabled)

You can modify these Network Setup options:

- Ports—Ethernet, Token Ring, or parallel port
- Protocols—TCP/IP, AppleTalk, and IPX/SPX
- Print Services—NetWare printing (PServer), Windows print sharing (SMB), LPD printing (TCP/IP), and HTTP support (WWW)

**TO CONFIGURE NETWORK PORTS**

- Click the Port tab in the Network Setup dialog box.



You can adjust settings as detailed in the following sections.

### Ethernet (Port Setup)

**Enable Ethernet**—Select if the Fiery X3 is to be connected to an Ethernet network.

**Transmission Speed**—This option is set to Auto Detect, which will detect the speed of your network.

# 3

## Parallel Port (Port Setup)

**Enable Parallel Port**—Select if you want to print through the parallel port. You can connect a single Windows computer to the parallel port and print directly to the Fiery X3.

**NOTE:** Enabling the parallel port does not conflict with using Ethernet or Token Ring communication with the Fiery X3.

**Ignore EOF Character**—Available only if Enable Parallel Port is selected, this option specifies that the Fiery X3 should ignore end-of-file (EOF) messages. Check this box to print PostScript files in binary format (not ASCII); under normal circumstances, the box should not be checked. When this option is selected, the Fiery X3 uses the parallel port timeout value to determine when the end of the file has been reached.

**Parallel Port Timeout (seconds)**—Available only if Enable Parallel Port is selected, this setting determines how long the Fiery X3 waits without receiving data from the parallel port before deciding that the current job is complete. Until the timeout, the Fiery X3 cannot receive new jobs through the parallel port, but it can continue to receive network print jobs.

## Token Ring (Port Setup)

**Enable Token Ring**—Select if the Fiery X3 is connected to a Token Ring network.

**Maximum Frame Size**—Select the maximum frame size recommended by the network administrator at your site. If you are uncertain of the setting to use, select the default value (4202).

**Transmission Speed**—Select Auto Sense if your network environment is mixed, or select the speed (4 Mbps or 16 Mbps) of the network to which the Fiery X3 is attached.

**Enable Source Routing**—Select if your network supports source routing.

**Request All Routes**—This option is active only if you enabled Source Routing. Select if you want the Request packet to travel to its destination by all routes.

**Respond All Routes**—This option is available only if the previous option is not selected. Select if you want the Response packet to return by all routes to the originating computer.

**TO CONFIGURE THE TCP/IP PROTOCOL**

- Click the Protocol1 tab in the Network Setup window.



You can change AppleTalk, IPX/SPX, and TCP/IP protocol settings for the Fiery X3 on the Protocol1 and Protocol2 tabs.

The Fiery X3 can accept jobs via TCP/IP (over either Ethernet or Token Ring), AppleTalk, and IPX/SPX simultaneously. To configure the Fiery X3, choose each protocol and enter the settings for that protocol.

Enable Ethernet and, if you have enabled and installed the Token Ring option, enable Token Ring. If your network uses a gateway, enter the gateway address.

When you set an IP address, subnet mask, or gateway address for the Fiery X3 during Setup, you can allow the Fiery X3 to get these addresses automatically from a DHCP, BOOTP, or RARP server. First, turn on or reboot the Fiery X3 and allow it reach Idle. Next, make sure the DHCP, BOOTP, or RARP server is running. Finally, perform Fiery X3 Setup.

## Protocol Setup (TCP/IP)

**Enable on Ethernet**—Click to enable if you have a TCP/IP network connected to the Fiery X3 over Ethernet cabling.

You must enable TCP/IP for Ethernet to use the Fiery WebTools over Ethernet. If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from Windows NT 4.0 workstations using TCP/IP protocols.

**IP Auto (Ethernet)**—Click to allow the Fiery X3 to obtain its Ethernet IP address by searching the network. Depending on your network and the protocol you select (DHCP, BOOTP, or RARP), the IP address can change.

**Select protocol (Ethernet)**—Select the protocol over which the Fiery X3 should search for its IP address. Both DHCP and BOOTP allow the Fiery X3 to obtain the Ethernet IP address and Subnet Mask automatically. RARP obtains only the Ethernet IP address.

Depending on your network, the Fiery X3 might be assigned a different address after you reboot the Fiery X3. With the DHCP setting, the Fiery X3 can be assigned a different address even if it is not rebooted. Make sure the network is already configured properly for the protocol you select.

**IP Static (Ethernet)**—Click to assign the Fiery X3 a static IP address that will not change.

**IP Address (Ethernet)**—Enter the Fiery X3 IP address for Ethernet. You must change the default 127.0.0.1 to a valid address for your network. For information about setting up printing with TCP/IP, see Chapter 4.

**Subnet Mask (Ethernet)**—If you need to set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

**NOTE:** Be sure to confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

## Protocol Setup (Token Ring)

**Enable on Token Ring**—Select if you have a TCP/IP network connected to the Fiery X3 over Token Ring. If you use Token Ring, enabling TCP/IP for Token Ring is required for enabling the Fiery WebTools.

If you are using TCP/IP for printing from Windows NT 4.0 workstations, enabling TCP/IP here also enables you to use Fiery utilities from Windows NT 4.0 workstations using TCP/IP protocols.

**IP Address (Token Ring)**—Enter the Fiery X3 IP address for Token Ring. You must change the default to a valid address for your network.

**IP Auto (Token Ring)**—Click to allow the Fiery X3 to obtain its Token Ring IP address by searching the network. Depending on your network and the protocol you select (DHCP, BOOTP, or RARP), the IP address can change.

**Select protocol (Token Ring)**—Select the protocol over which the Fiery X3 should search for its IP address. Both DHCP and BOOTP allow the Fiery X3 to obtain the Token Ring IP address and Subnet Mask automatically. RARP obtains only the Token Ring IP address.

Depending on your network, the Fiery X3 might be assigned a different address after you reboot the Fiery X3. With the DHCP setting, the Fiery X3 can be assigned a different address even if it is not rebooted. Make sure the network is already configured properly for the protocol you select.

**Static IP (Token Ring)**—Click to assign the Fiery X3 a static IP address that will not change.

**Subnet Mask (Token Ring)**—If you need to set the subnet mask, enter one of the following values:

- 255.0.0.0 if the IP address starts with a number less than 128
- 255.255.0.0 if the IP address starts with a number from 128 through 191
- 255.255.255.0 if the IP address starts with a number greater than 191

**NOTE:** Be sure to confirm the subnet mask setting with your network administrator before proceeding. In some cases the required setting may be different from those listed.

## Gateway

If your TCP/IP network has a gateway, and users outside the gateway print to the Fiery X3 using TCP/IP, enter the gateway address. Obtain the correct gateway address from your network administrator.

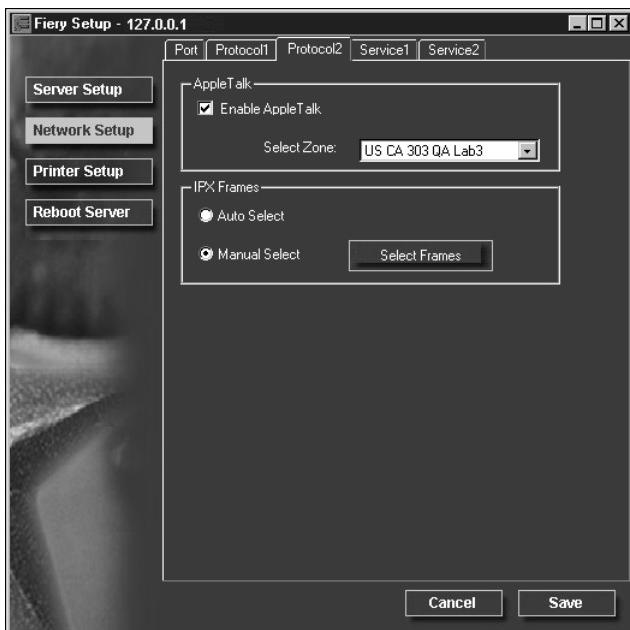
**IP Auto**—Use this option to get the gateway address automatically for printing with TCP/IP. This option is available only if you selected DHCP or BOOTP as the protocol.

If you select a DHCP or BOOTP protocol and later change it to RARP, you must return to Gateway Setup and set Get Gateway Address Automatically to No. You can then set the address manually. This is because RARP does not support automatic assignment of the gateway address.

**IP Static**—This option is available only if you answered No to Get Gateway Address Automatically, or if you selected RARP as the protocol. Use this option to set the gateway address for printing with TCP/IP. If your network uses a gateway, you must change the default to a correct gateway address for your network.

**TO CONFIGURE APPLETALK**

- Click the Protocol2 tab in the Network Setup window.

**Protocol Setup (AppleTalk)**

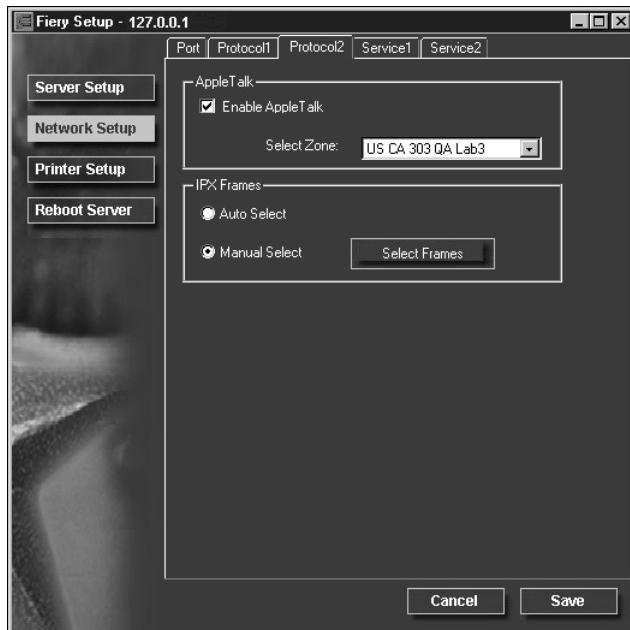
**Enable AppleTalk**—Select to enable Apple Talk if you have an AppleTalk network connected to the Fiery X3. This setting enables the Fiery X3 to communicate over AppleTalk networks.

**Select Zone**—The Fiery X3 searches the network for AppleTalk zones in your network segment. Scroll through the list to select the AppleTalk zone in which you want the Fiery X3 to appear. If your segment has only one zone, the Fiery X3 is assigned to that zone automatically.

If no AppleTalk zone can be found, your network may have no defined zones, or else the network cable has not been connected (see page 5-4). Choose OK.

**TO CONFIGURE IPX FRAME TYPES**

- Click the Protocol2 tab in the Network Setup window.



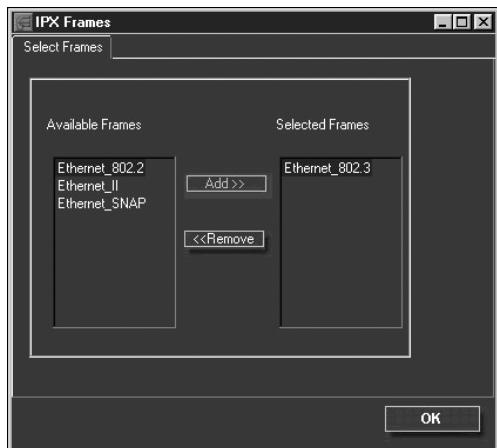
The Fiery X3 supports the following Ethernet frame types for IPX/SPX: Ethernet 802.2, Ethernet 802.3, Ethernet II, and Ethernet SNAP. For Token Ring, the supported frame types are Token Ring and Token Ring SNAP. You can also allow the Fiery X3 to select the frame type automatically.

## Protocol Setup (IPX Frames)

**Auto Select**—Click Auto Select to specify all supported IPX frames, whether or not they are supported on your network. To determine the frame types that were successfully bound, save your settings, reboot the Fiery X3, and print a Configuration page.

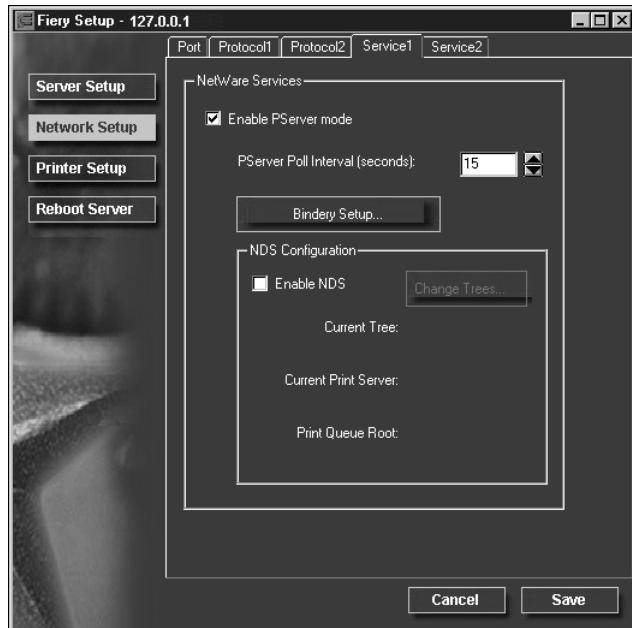
**Manual Select**—To specify IPX frames used with NetWare, click Manual Select, and click the Select Frames button. See your network administrator to verify which frame type to choose.

In the IPX Frames dialog box, select frames and use the Add and Remove buttons to specify the selected frames.



**TO CONFIGURE PSERVER SETUP**

- Click the Service1 tab in the Network Setup window.



You can modify NetWare 3.x (Bindery), and NetWare 4.x (NDS) configurations from Fiery WebSetup. Turn on the Enable NDS option if your network uses NetWare 4.x in native mode. Click Bindery Setup if your network uses NetWare 3.x, or uses NetWare 4.x in bindery emulation mode.

**NOTE:** If your network uses *both* NDS and Bindery, set up NDS first. Setting up NDS after Bindery will overwrite Bindery Setup. If your network uses both NDS and Bindery, including using NetWare 4.x servers in bindery emulation, the Fiery X3 cannot service NDS and bindery emulation servers on the same NDS tree.

# 3

## PServer Setup (NetWare Services)

The Enable PServer option must be turned on if you have a Novell server connected. You can, however, change the PServer polling interval and then modify either Bindery Setup or NDS Configuration.

**NOTE:** The terms NetWare server, Novell server, and IPX server are in common use and are used here interchangeably to mean the server on an IPX network running Novell NetWare networking software.

## PServer Setup (NDS Configuration)

In initial setup, the Fiery X3 was connected to the network and an NDS directory tree, with a Printer, a Print Server, and one or more Print Queue objects for Fiery X3 jobs (see page 4-7), was configured. You can make any changes to that setup through Command WorkStation. To modify NDS Setup, you may need permission to browse the NDS tree. If access to the Print Server is restricted, you need a login password.

### Enable NDS

Check this box if NDS has already been enabled on the network.

### Change Trees...

Click to open the NDS Configuration window. This option is available only when Enable NDS is selected.

### Add NDS Tree

You can have only one NDS tree, so the following process is required to change trees:

1. Select the current NDS tree and click Remove.
2. Select the new NDS tree and click Add.

Your new NDS tree selection automatically overwrites any previous tree selection. If you change the NDS tree selection and there are also current Bindery settings, you are alerted that they will be deleted. If you continue with NDS Setup, you can replace Bindery settings afterwards. To exit NDS Setup, choose Cancel.

3. Click OK.

The Select User Login window appears.

- |                                    |   |
|------------------------------------|---|
| <b>Select User Login</b>           | <ol style="list-style-type: none"><li>1. <b>Select the User Login object from the display in the Select User Login window.</b></li><li>2. <b>Enter a password if necessary.</b></li><li>3. <b>Click Next.</b></li></ol> <p>The Select Print Server window appears.</p>                              |
| <b>Select Print Server</b>         | <ol style="list-style-type: none"><li>1. <b>Select the print server from the display in the Select Print Server window.</b></li><li>2. <b>Enter a password if necessary.</b></li><li>3. <b>Click OK.</b></li></ol> <p>The Select Print Queue Root window appears.</p>                               |
| <b>Select Print Queue Root</b>     | <ol style="list-style-type: none"><li>1. <b>Select the print queue root from the display in the Select Print Queue Root window.</b></li><li>2. <b>Enter a password if necessary.</b></li><li>3. <b>Click Finish.</b></li></ol> <p>The NetWare Setup window reappears, showing the new settings.</p> |
| <b>Enter Print Server Password</b> | <ol style="list-style-type: none"><li>1. <b>Enter the Print Server password if necessary.</b></li><li>2. <b>Choose OK.</b></li></ol>  |

# 3

## PServer Setup (Bindery Setup)

Use Bindery Setup if you have already configured one or more bindery servers (file servers running NetWare 3.x, or NetWare 4.x in bindery emulation) with a Print Server and a Print Queue for Fiery X3 jobs (see page 4-7). Before entering bindery settings, be sure the Fiery X3 is connected to the network and the NetWare file server is running. You need a login name, and, if access to the file server or print server is restricted, you need a login password.

Because you can set up more than one Novell server to handle Fiery X3 print jobs, Bindery Setup allows you to add or delete new file server connections and view the connections you have selected. The options are:

### **Bindery Setup...**

Click the Bindery Setup button to bring up the Novell Setup window.

### **Novell Setup**

- 1. Click the server you want to add.**
- 2. Click Add.**
- 3. Enter your user name and password.**
- 4. Click Next.**

The Add Server window shows a list of print servers you can add.

### **Add Server**

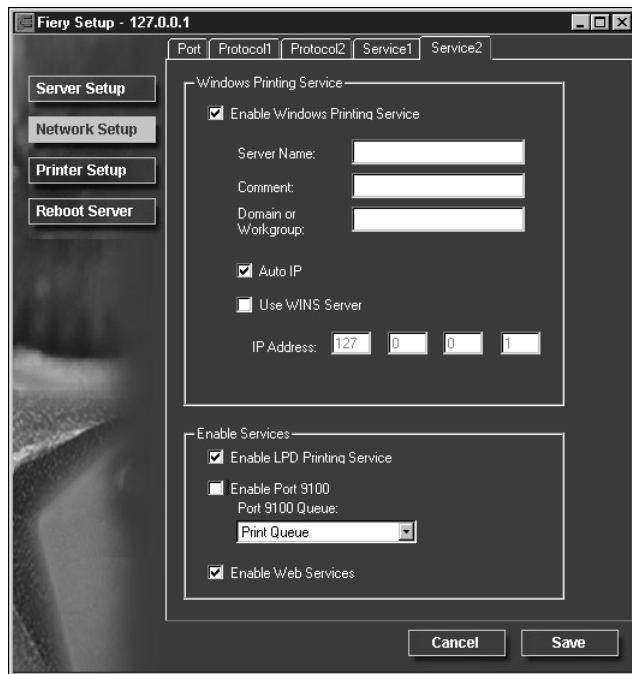
- 1. Select a print server from the list on the left.**
- 2. Enter a password if required.**
- 3. Click Finish.**

You return to the main Novell Setup dialog box.

- 4. Click OK.**

**TO CONFIGURE WINDOWS PRINTING, LPD, AND WEB SERVICES**

- Click the Service2 tab in the Network Setup window.



The Service2 tab provides the following:

- Windows Printing Service enables the Microsoft SMB protocol, which supports peer to peer printing, also known as Windows or SMB printing.
- LPD Printing Service enables lpd printing on TCP/IP networks.
- Web Services enables the http protocol and, therefore, use of the Fiery WebTools.

# 3

## Service Setup (Windows Printing Service)

For setting up the Windows printing service, these characters are allowed in the text fields: uppercase letters, numerals, space, and the following characters:

- \_ . ~ ! @ # \$ % ^ & ( ) { } \ ' ,

**NOTE:** Lowercase letters are *not* allowed, except in the Comment field.

**Enable Windows Printing Service**—Select to enable SMB (Server Message Block), the file and printer sharing protocol built into Windows. Enabling SMB allows the Fiery X3 to be listed on the network so that Windows clients can print to a particular print connection (Hold, Print, or Direct) on the Fiery X3 without any other networking software. For information on how to set up a Windows client for Windows printing, see *Getting Started*.

**NOTE:** Windows (SMB) printing runs over TCP/IP, so TCP/IP must be configured on the Fiery X3 and on workstations that use Windows printing.

**NOTE:** Be sure the administrator configures the printer driver defaults *before* Windows NT 4.0 clients install the printer driver with Point and Print. The Fiery X3 Administrator name and Password are required during Point and Print installation if you want to change defaults for the Windows NT 4.0 printer driver.

**Server Name**—The server name is the name that will appear on the network. It can, but does not have to, be the same name as the server name assigned to the Fiery X3 (see page 3-2).

**Comment**—You can enter information about the printer, up to 15 characters. These comments are listed in the Properties of the Fiery X3 in Network Neighborhood. Lowercase letters are allowed in this field.

**Domain or Workgroup**—Enter the workgroup or domain where the Fiery X3 should appear.

**Ethernet WINS Server**—Enter the IP address of the Ethernet WINS name server.

Broadcasts from SMB devices cannot be routed beyond their original network segment without a WINS name server. Setting up the WINS name server is outside the scope of this manual. To find out if a name server is available, contact your network administrator.

# 3

## Service Setup (Enable LPD Printing Service)

**Enable LPD Printing Service**—Select to allow lpd printing.

## Service Setup (Enable Port 9100)

**Enable Port 9100 Print Services**—This option allows application programs to open a TCP/IP socket to the Fiery X3 at Port 9100 to download a print job.

**Port 9100 Queue**—You can attach Port 9100 to any of the published Fiery X3 print connections.

## Service Setup (Enable Web Services)

**Enable Web Services**—Select to make the Fiery WebTools available to users (see page 4-15). TCP/IP must already be enabled on the Fiery X3 and on user workstations. The Fiery WebTools include Fiery WebSpooler, Status, WebLink, WebSetup, WebScan, WebDownloader, and Installer. A Java-enabled Web browser and a valid IP address are required for each user. See *Getting Started* for details on supported browsers and workstation requirements.

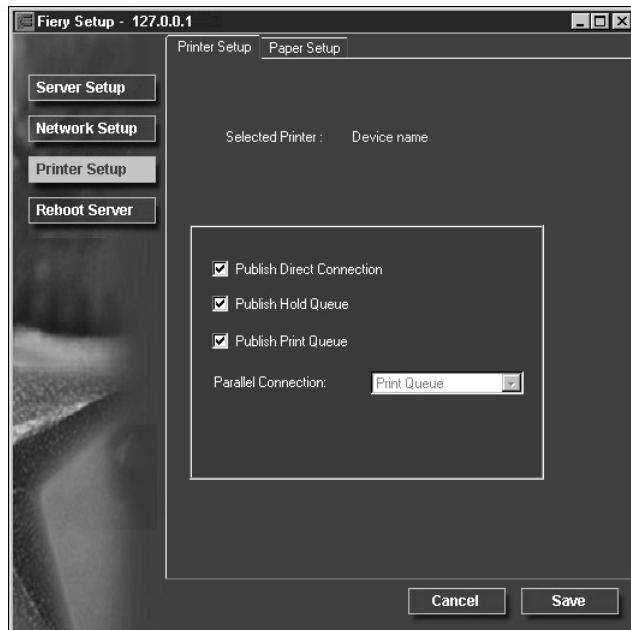
## Printer Setup

From this window, you can access two tabs: Printer Setup and Paper Setup.

**NOTE:** In the following illustration, “Device name” represents the model of the copier connected to the Fiery X3, which is 65BW-M Pro.

**TO PUBLISH PRINT CONNECTIONS**

- Click the Printer Setup tab.



# 3

## Printer Setup

**Publish Direct Connection**—Select to enable users to print (or download) jobs to the Fiery X3 without spooling. When the Direct connection is published, users can print jobs to the Direct connection and download and delete printer fonts. Jobs printed to the Direct connection are not available to be reprinted from the Printed queue.

**NOTE:** The Direct connection must be published to download fonts.

**Publish Hold Queue**—Select to enable users to print jobs to the Hold queue. Jobs printed to the Hold queue are not processed until the administrator or the operator releases them for printing from the job management tools. For users to use Fiery utilities, you must publish the Hold queue, regardless of whether users send jobs to the Hold queue.

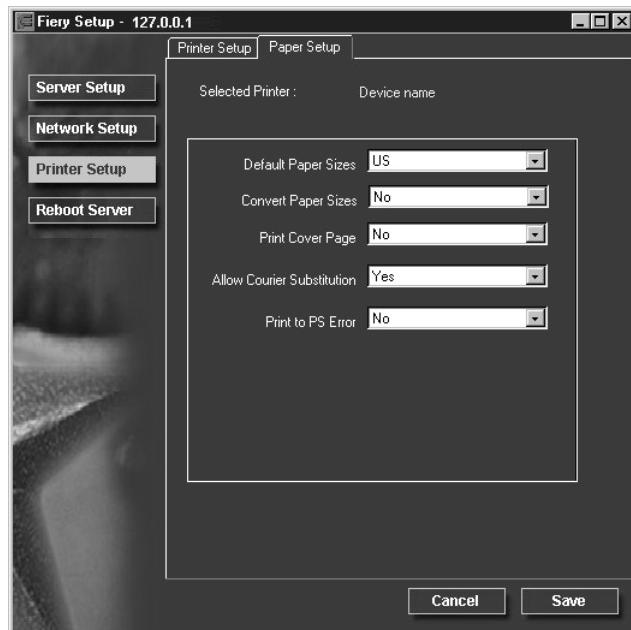
**Publish Print Queue**—Select to enable users to print jobs to the Print queue. Jobs printed to the Print queue are spooled on the Fiery X3 hard disk drive.

**Parallel Connection**—This option is available only if the parallel port has been enabled and you have published more than one print connection (Print queue, Hold queue, or Direct connection). This setting determines where jobs printed to the parallel port are sent. If only one print connection has been published, parallel port jobs are automatically printed to that connection.

**TO SET PAPER OPTIONS**

- Click the Paper Setup tab in the Printer Setup window.

**NOTE:** In the following illustration, “Device name” represents the model of the copier connected to the Fiery X3, which is 65BW-M Pro.



# 3

## Paper Setup

On the Paper Setup tab, you can set most of the same options as appear on the Fiery X3 Control Panel for PS Setup.

**Default Paper Sizes**—Specify whether to print on US paper sizes (for example, letter, legal, tabloid), or Metric paper sizes (for example, A4 and A3) by default. When no page size is defined within a PostScript file, jobs are printed on letter paper if you select US, or A4 paper if you select Metric.

**Convert Paper Sizes**—Specify whether to convert paper sizes in documents automatically to the default paper sizes specified. For example, if you select Letter/11x17->A4/A3, a letter size job is automatically printed on A4 paper. If you select No, the Fiery X3 prints the job only if it finds a media source in the size specified by the job.

**Print Cover Page**—Specify whether the Fiery X3 prints a cover (job summary) page at the end of each print job. If this option is set to Yes, each print job is followed by a page containing the name of the user who sent the job, the document name, the server name, the time the job was printed, the number of pages printed, and the status of the job. If a PostScript error occurs and the Print to PS Error option is set to Yes, the Cover Page lists the PostScript error message instead of the job status.

**Allow Courier Substitution**—Specify whether to substitute Courier for unavailable fonts. When this option is off, jobs requiring fonts not available on the Fiery X3 hard driver generate a PostScript error and do not print. This setting does not apply to PDF files; font substitution occurs automatically for PDF files.

**Print to PS Error**—Specify whether the Fiery X3 should print the available portion of a print job when it encounters a PostScript error. In general, this option should be set to No.

- When this option is set to No, printing of the entire job is canceled when a PostScript error occurs, but the processed portion of the job and the PostScript error information are stored on the Fiery X3. You can view the job and the error information from the job management tools.
- When this option is set to Yes, the portion of the job processed before the error occurred is printed.

# 3

## Exiting Setup

When you have finished specifying Setup options, click OK and close the Setup dialog box. You are notified that the Server must be restarted for the new settings to take effect and given the choice to reboot now or later. If Command WorkStation is running, the connection to the Server is lost and you must log in again when the Server has finished restarting.

After you have completed Setup and rebooted the Fiery X3 for the first time, install user software for printing on remote workstations as described in *Getting Started*. To confirm the network connection and your Setup, print a test job from a remote workstation.

## Chapter 4: Setting up Network Servers

This chapter describes environments that typically include one or more network servers—Novell NetWare servers and Windows NT 4.0 servers—that will share printing to the Fiery X3. It describes setting up servers that use IPX/SPX or TCP/IP protocols for communicating with the Fiery X3. In addition, it includes some guidelines for setting up direct communication from Windows NT 4.0 workstations and UNIX workstations, where a network server is optional. The chapter also outlines the requirements for network clients to print to the Fiery X3 and to run the Fiery utilities and the Fiery WebTools.

The Fiery X3 can accept jobs concurrently from NetWare, Windows NT 4.0, and AppleShare servers, as well as jobs sent directly from Windows NT or UNIX workstations. Because AppleShare servers require no special configuration, they are not discussed in this chapter, except for use in a Windows NT 4.0 environment (see “Fiery X3 on a TCP/IP network with Windows NT 4.0” on page 4-11).

If your network is based on Windows NT 4.0, proceed to page 4-11. For information on UNIX workstations, proceed to page 4-18.

### Fiery X3 on a NetWare 5.x network with NDPS

The Fiery X3 supports printing over a NetWare 5.x network running either the TCP/IP protocols or the IPX protocol. For pure IP printing, the Fiery X3 takes advantage of features in NDPS (Novell Distributed Print Services), using the Novell Gateway version 2.0.3 or later and Support Pack version 3.0 or later. For IPX printing, the Fiery X3 supports the PServer service in Bindery emulation or through NDS (Novell Directory Services). For more information on IPX-based printing, see “Fiery X3 on a NetWare 3.x, 4.x, or 5.x network” on page 4-4.

**NOTE:** Setting up a NetWare environment correctly requires the presence and active cooperation of the Novell network administrator. You must have administrator privileges on the network to create new NDS or bindery objects.

NDPS is not like the earlier queue-based versions of NetWare printing. Instead, you use an NDPS Manager and a Printer Agent, which control the tasks previously handled by a print queue, print server, and spooler. You can also make the printer driver available for clients to download from Windows 9x/Me and Windows NT 4 computers.

The Fiery X3 can receive print jobs from NetWare clients over Ethernet or Token Ring network topologies. (Appendix A describes the Token Ring option.) During Fiery X3 Setup, you select the frame type or types that will be used for communication between the Fiery X3 and network servers. Frame type refers to the format of a communications packet; frame types are specified in a startup file when the NetWare server (or any other workstation) loads its network drivers.

### Tips for experts—NetWare 5.x networks

Setting up the Fiery X3 in an NDPS environment is similar to setting up any other PostScript printer on the network. The following information is useful for experienced network administrators:

- **Make sure you have a valid IP address for the Fiery X3 and for any workstations that will print to it or run the Fiery utilities.**
- **In Fiery X3 Setup, enable TCP/IP and enter the IP address, Subnet mask, and Gateway address for the Fiery X3. You can enter these manually or use DHCP, RARP, or BOOTP protocols to assign the addresses dynamically.**
- **Bi-directional communication features in NDPS are not supported on the Fiery X3.**

### Configuring a NetWare 5.x server for printing

#### Before you begin

The following procedure assumes NDPS has been installed during NetWare 5 installation and that a Broker is running on the server. Unless you have manually unloaded the Broker, it loads and runs when you install NDPS. Make sure you are using NetWare 5.x Service Pack version 3.0 or later, and the Novell Gateway version 2.0.3 or later. Finally, create an NDPS Manager. For more information, see your NetWare documentation.

In Fiery X3 Setup, make sure you have enabled TCP/IP (page 2-15) and LPD printing (page 2-22) on the Fiery X3. You can ping the Fiery X3 (page 4-20) to verify that TCP/IP communication is successful.

### Setting up the Fiery X3 on a NetWare 5.x network

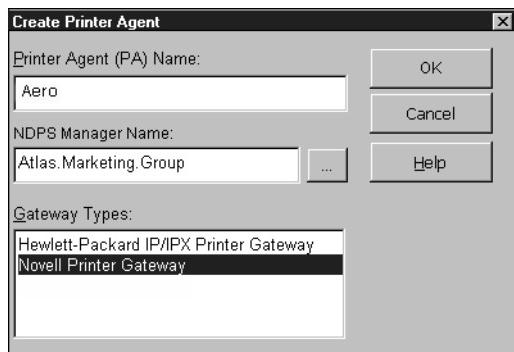
Depending on the security needs at your organization, you can set up the Fiery X3 as a Public Access printer or a Controlled Access printer. The following procedure describes setting up a Public Access printer. You can then convert this type of printer to Controlled Access if necessary. For more information, see your NetWare documentation.

**NOTE:** In the following procedure, “Atlas” is an example of an NDPS Manager name; “Aero” is an example of a Printer Agent name.

---

#### TO SET UP THE FIERY X3 AS A PUBLIC ACCESS PRINTER:

1. In NetWare Administrator, double-click the NDPS Manager object you have created.
2. In the Details window for the NDPS Manager object, click the Printer Agent List button.  
The list of Printer Agents appears.
3. Click New.  
The Create Printer Agent dialog box appears.
4. In the Printer Agent (PA) Name field, enter a name.



5. Under Gateway Types, select Novell Printer Gateway, and click OK.

6. In the Configure Novell PDS for Printer Agent dialog box, select “((NONE))”, and click OK.
7. In the Configure Port Handler dialog box, choose “Remote LPR on IP” as the connection type, and click Next.
8. For Host Address, enter the IP address of the Fiery X3.
9. For Printer Name, enter the name of the Fiery X3 print connection you want users to print to, and click Finish.  
This name must be either print or hold.
10. In the Select Printer Drivers dialog box, select the printer driver for Windows 9x/Me and the driver for Windows NT 4.
11. Click Continue, and click OK.

## Fiery X3 on a NetWare 3.x, 4.x, or 5.x network

The NetWise software built into the Fiery X3 supports the following network operating environments:

- NetWare 4.x or 5.x—Novell Directory Services (NDS)
- NetWare 3.x—Bindery services
- Servers running NetWare 4.x or 5.x in bindery emulation mode

**NOTE:** Setting up a NetWare environment correctly requires the presence and active cooperation of the Novell network administrator. You must have administrator privileges on the network to create new NDS or bindery objects.

The term “bindery server” is used to refer to a Novell file server running NetWare 3.x, NetWare 4.x, or Netware 5.x in bindery emulation mode. The term “NDS” is used to describe components of a NetWare operating system running NetWare 4.x in native mode.

NetWare clients print to the Fiery X3 through the Novell network server. Server setup and client network setup are outlined here. Client printing setup is described in *Getting Started*, and printing is described in the *Printing Guide*.

The Fiery X3 can receive print jobs from NetWare clients over Ethernet. During Fiery X3 setup, you select the frame type or types that will be used for communication between the Fiery X3 and network servers. Frame type refers to the format of a communications packet; frame types are specified in a startup file when the NetWare server (or any other workstation) loads its network drivers.

### Tips for experts—IPX networks

Setting up the Fiery X3 is similar to setting up another printer on the network. The following information is all that experienced network administrators need.

The Fiery X3 with IPX connections has these characteristics:

- **Both NetWare 3.x and NetWare 4.x are supported directly. NetWare 4.x is also supported through bindery emulation.**
- **A minimum connection to the Fiery X3 consists of a NetWare file server, a NetWare print server, and a NetWare queue.**
- **A single directory tree (for NetWare 4.x) and up to eight bindery servers can be configured simultaneously.**
- **The Fiery X3 looks for print jobs on one NetWare print server per bindery server.**
- **Each print server can store jobs for any queue on the Fiery X3.**

## Overview of IPX printing to the Fiery X3

NetWare file servers support the creation of print queues, which are storage areas for print jobs. When a client on a remote computer decides to print, the job is directed to a print queue on the NetWare file server and spooled to the NetWare server disk, freeing up the client workstation.

The queues on the NetWare server must be named to match the Direct connection and the Print, and Hold queues on the Fiery X3. The NetWare queue names should be given an extension corresponding to the Fiery X3 print connection, as follows:

\_print  
\_hold  
\_direct

**NOTE:** The extension names must be in all lowercase and must be in English.

There is no need to rerun Setup when adding or removing a NetWare queue; however you should reboot the Fiery X3 after a queue is created or removed.

When the Fiery X3 is configured to connect to a NetWare server, it polls the NetWare server for jobs in each of its queues. If jobs are found, they are transferred over the network to the matching connection: Print to Print, Hold to Hold, Direct to Direct. While a job is processed and printed, a record of the job is being created. You can access the Job Log containing these records at any time.

# 4

## Configuring a NetWare server for printing

The following sections explain how to set up a NetWare file server so that networked users can print to the Fiery X3 from their workstations, and the Fiery X3 can obtain print jobs from the NetWare server.

For *each* NetWare file server that you configure, follow these general steps. More detail is provided in subsequent sections and in your NetWare documentation.

- Make sure the server is connected to a functioning IPX network.
- Log in as the Supervisor on a PC connected to the NetWare file server.
- For NetWare 4.x installations, set up an NDS connection (see page 4-9).
- For NetWare 4.x in emulation mode, set the bindery context (see page 4-9).
- For NetWare 3.x and for NetWare 4.x in bindery emulation, set up a file server, a print server, and a print queue for the Fiery X3 (see page 4-10).

With bindery services, you can route all Fiery X3 print jobs through the same NetWare file server, or you can configure more than one file server to handle Fiery X3 jobs.

The functions you perform on the Novell server, on the Fiery X3, and on the client workstation are summarized in the following tables. The first table applies to NDS connections, the second to bindery connections. Complete the operations in the left column, then the center column, then the right column.

### Configuring an NDS connection

**Abbreviations:**

FS = file server

PS = print server

PQ = print queue (on the NetWare server)

On NDS FS	On Fiery X3 Control Panel	On client workstation
<b>In NETADMIN:</b> Create NDS PQs Create NDS printer and assign PQs Create PS and assign the printer Configure users of the PQs	<b>Port Setup</b> Ethernet Setup <b>Protocol Setup</b> IPX/SPX Setup—select frame types <b>Service Setup</b> PServer Setup and NDS Setup Select Root Browse to select PS Specify PQ search root (optional) Set Polling Interval	Install user software For printing: Connect client to PQs that you set up on the NetWare FS (associated with the PS selected in NDS Setup)

### Configuring a bindery connection

On Bindery FS	On Fiery X3 Control Panel	On client workstation
<b>In PCONSOLE:</b> Select NetWare FS (up to 8) For each FS: Configure PS Configure PQ Configure users of the PQ	<b>Port Setup</b> Ethernet Setup <b>Protocol Setup</b> IPX/SPX Setup—select frame types <b>Service Setup</b> PServer Setup and Bindery Setup Add FS (up to 8) Set Polling Interval	Install user software For printing: Connect client to PQs that you set up on the NetWare FS (associated with the PS selected in Bindery Setup)

## Setting up an NDS connection

In NDS, all NetWare entities (objects) are organized in a hierarchical tree structure. Objects have a name, properties, and a context which defines the location of the object in the directory tree. For the Fiery X3 you are mainly concerned with defining a printer, a print server object and one or more print queue objects. Objects are created in NetWare administrator programs such as PCONSOLE, NETADMIN, or NetWare Administrator.

The top-level tree object is known as the [Root] object. The name of the [Root] object is also the name of the tree. Below the [Root] are other objects: either containers (which consist of other objects) or leaf objects (which do not contain other objects). Access to objects is controlled by rights that are defined as properties of each object. Rights are established by network administrators.

## Setting the NetWare 4.x bindery context

You can connect only one directory tree to the Fiery X3. If you need to connect additional NetWare 4.x servers, you can do so by using bindery emulation, which causes the 4.x server to behave like and be accepted as a NetWare 3.x server.

**NOTE:** The file server selected must not be in the same tree as that selected in NDS Setup.

Up to eight bindery servers, whether in native 3.x mode or in 4.x emulation, can connect to the Fiery X3. If your server is using NetWare 3.x, proceed to “Setting up a Fiery X3 print queue for bindery” on page 4-10.

In order to set up the NetWare 4.x or 5.x server in bindery emulation mode for printing to the Fiery X3, the network administrator must do the following:

- Determine the Directory Services path to the container in which the print server and the print queue for the Fiery X3 will be created.

The container defines the “bindery context” for your network structure.

- Edit the network startup file to set the bindery context.
- Activate the new bindery context.

### Setting up a Fiery X3 print queue for bindery

For NetWare 3.x, 4.x and for 5.x in emulation, the NetWare print server and print queue for Fiery X3 are created and configured from NetWare Print Console (P\_CONSOLE), a NetWare utility that is stored in NetWare's PUBLIC directory.

As with NDS, first you create several NetWare entities on a Novell server, then you select them in Network Setup on the Fiery X3 Control Panel.

### Setting up NetWare Windows clients for printing

Before setting up client workstations for printing, make sure you perform Network Setup on the Fiery X3 Control Panel (see page 2-9), and that the settings reflect the entities you created in the NetWare administrator utilities (see page 4-7).

**NOTE:** For printing to the Fiery X3, connect all Windows clients to a Novell NetWare server and permit them to connect to the server or servers on which you defined a Fiery X3 queue.

After the Novell server and the Fiery X3 have been set up, client setup consists of:

- Installing the networking protocol, binding it to the network adapter card, and permitting the client to log in to the NetWare file server.

On Windows 9x/Me workstations, both the IPX/SPX-compatible protocol and the Client for NetWare Networks should be loaded from the Network Control Panel.

On Windows NT workstations, Client Service for NetWare should be installed. Use the CSNW option in Control Panel to set printing options and specify a preferred NetWare server.

- Setting up the Fiery X3 as a PostScript or PCL printer by installing a PostScript or PCL printer driver.
- Adding a network port and connecting the workstation to one or more NetWare queues that have been defined for the Fiery X3.

See *Getting Started* for details on how to connect Windows 9x/Me and Windows NT 4.0 workstations.

- Installing Fiery X3 software.

See *Getting Started* for details.

## Fiery X3 on a TCP/IP network with Windows NT 4.0

When a Windows NT 4.0 computer is configured to connect to the Fiery X3 using TCP/IP, it can print directly to the Fiery X3. If the computer shares the printer over the network, it is acting as a print server to Windows NT 4.0 clients. The client machines print to the Fiery X3 by printing to the Windows NT 4.0 print server. Printing can then be monitored and controlled at the Windows NT 4.0 server machine.

With TCP/IP protocols loaded, Windows 9x/Me clients can run Fiery WebTools.

The Windows NT 4.0 server can also use AppleTalk protocols for printing to the Fiery X3 as an alternative to TCP/IP. When creating a printer to share with AppleTalk users, do not “capture” the printer. Capturing the printer forces all users to print to the server rather than directly to the printer. If you capture the printer, Fiery X3 print connections will not appear in the Mac OS Chooser.

### Tips for experts—Windows NT 4.0 with TCP/IP

Setting up printing from Windows NT 4.0 using TCP/IP protocols is similar in some respects to setting up UNIX workstations with TCP/IP. When TCP/IP network connections are made from Windows NT 4.0 workstations, note the following:

- **In Fiery X3 Setup, enable TCP/IP and enter the IP address, subnet mask, and gateway address for the Fiery X3.**  
You can enter these addresses manually or use DHCP, RARP, or BOOTP protocols to assign them dynamically.
- **Make sure your Fiery X3 name and address are listed in a domain name services (DNS) or a host name database used by your system.**

- **Make sure your system host table includes the correct internal name for the Fiery X3 as a remote printer.**  
See page 4-19 for more information.
- **Install the appropriate printer driver files (PCL or PostScript) on the Windows NT 4.0 server (see *Getting Started*).**
- **Repeat the installation for everyone who prints to the Fiery X3.**

### **Configuring a Windows NT 4.0 server to support the Fiery X3**

To configure a Windows NT 4.0 server to communicate with the Fiery X3, follow these general steps. More detail is provided in subsequent sections.

- Load the TCP/IP network protocol on the server and configure it with an IP address, subnet mask, and gateway.
- Enter the host name of the Fiery X3 in the host database used by your system (see page 4-13).
- On the Fiery X3 Control Panel, perform Server Setup (see page 2-7), Network Setup (page 2-9), PS Setup (page 2-39), and PCL Setup (page 2-41).
- On the Windows NT 4.0 server, create a printer for each Fiery X3 print connection, install the appropriate printer drivers (if necessary) and (optionally) share the printer on the network (see page 4-14).
- Enter the host name and internal name of the Fiery X3 in the printer connection. See *Getting Started* for more information.

### Adding the Fiery X3 to the TCP/IP network

If your TCP/IP network consists of Windows NT 4.0 servers and Windows NT 4.0 clients, use the directions in this section. If the network includes UNIX workstations, also check the directions on page 4-18.

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#### TO ADD THE FIERY X3 TO A TCP/IP NETWORK WITH A WINDOWS NT 4.0 SERVER

1. **Register the IP address of the Fiery X3 in the host name database used by your system.**

The hosts file maps remote devices to IP addresses. Users can then communicate with any device over TCP/IP by using the host name rather than having to remember its IP address.

For installations that do not have a network administrator or a central host name database, add the Fiery X3 to the hosts file on the Windows NT 4.0 server. Also add it to the hosts file on any workstations that have TCP/IP loaded and will use the Fiery utilities.

The Windows NT hosts file provides compatibility with the UNIX hosts file. The hosts file is used as a local Domain Name Services (DNS) equivalent. It has the same format as the /etc/hosts file on UNIX servers. The format of the hosts entry is:

IP Address<TAB>host name<TAB>#comments

where <TAB> indicates that you press the Tab key.

To determine the IP Address and Server Name of your system, print a Configuration page from the Fiery X3 Control Panel (see page 2-46).

**NOTE:** If the Fiery X3 has already been defined in an /etc/hosts file or equivalent host name database on a UNIX workstation on your network, use the same host name here as you used for the name of the remote printer in the /etc/printcap file.

2. **On the Fiery X3 Control Panel, perform Server Setup, Network Setup and Printer Setup to support TCP/IP printing.**

Enter the options in Protocol Setup (IP address of the Fiery X3, subnet mask, and gateway address).

### Installing the Fiery X3 as a shared PostScript printer

The first step in creating a printer is installing the Windows NT PostScript printer driver and the Fiery X3 PostScript printer description file (PPD), which gives your applications access to some printer features. The installation instructions in *Getting Started* can be used for every workstation that will print directly and independently to the Fiery X3. However, if you are an administrator running Windows NT 4.0 Server or Windows NT 4.0 Workstation, you can also create a printer and share it with Windows NT 4.0 clients on the network. When a printer is shared, Windows NT 4.0 clients who are not able or are not given permission to establish an independent network connection to the Fiery X3 have to print through the server.

You can specify sharing of the printer during installation of the Fiery X3 printer files. If you have not yet installed the Fiery X3 printer files on the Windows NT 4.0 print server computer, do so now following the instructions in *Getting Started*. During installation, enter the information necessary to share the Fiery X3.

If you have already installed the Fiery X3 printer files on the computer you are using as a Windows NT 4.0 print server, see your Windows documentation for information about sharing the Fiery X3.

If more than one Fiery X3 print connection is published (for example, if both the Print queue and the Hold queue are published), you may wish to create a printer for each print connection so that you and other users can print to each connection directly. When prompted to specify the printer name, you may want to enter a name that indicates the Fiery X3 print connection.

### Configuring clients of a Windows NT 4.0 server

Each client of a Windows NT 4.0 server is already using a network protocol to communicate with the server. Each client can print to the Fiery X3 if it has been shared by a Windows NT 4.0 Server or Windows NT 4.0 Workstation computer. In that case the client does not have to use the same network protocol to connect to the Windows NT 4.0 server as the server uses to communicate with the Fiery X3.

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#### TO CONNECT AND PRINT TO THE FIERY X3 SHARED BY THE WINDOWS NT 4.0 SERVER

- For Windows NT 4.0 Workstation clients, before printing, connect to the print server computer and select the Fiery X3. Right-click and select Open. When prompted, click Yes to have Windows set up the printer.

After clients have set up the printer, they can choose it from the Print Setup, Page Setup, or Print dialog box of their application. Clients can change printing options for their own job, but printer properties are grayed and not available for changing. When you choose Print from a client, the job is transmitted to the Windows NT 4.0 print server, and from there to the selected queue on the Fiery X3. The job is listed in the Print Manager on the client workstation, and the administrator can track it in the Fiery X3 window in the Print Manager on the Windows NT 4.0 print server.

### Configuring the Fiery X3 and clients for Fiery WebTools

The Fiery WebTools offer access to many Fiery X3 functions via the Internet (or your company's intranet), thus providing additional flexibility in remote management. You can access the Fiery WebTools from a Mac OS or Windows computer.

**NOTE:** Fiery WebSetup is supported on Windows computers only.

# 4

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## TO SET UP FIERY WEBTOOLS ON THE FIERY X3

- 1. Perform Fiery X3 Setup and enable TCP/IP.**  
In Network Setup, choose Protocol Setup and perform TCP/IP Setup and Ethernet Setup.
  - 2. Set a valid, unique IP address for the Fiery X3, and then set the subnet mask and a gateway address if necessary.**
  - 3. Exit TCP/IP Setup and exit Protocol Setup.**
  - 4. Choose Service Setup, and choose Web Services Setup.**
  - 5. For Enable Web Services, select Yes.**
  - 6. Exit Service Setup and exit Network Setup, and select Yes at the Save Changes screen.**
- 

## TO SET UP FIERY WEBTOOLS ON A COMPUTER

- 1. Enable TCP/IP networking.**
- 2. Assign the workstation has a valid, unique IP address, and then set the subnet mask. Set a gateway address if necessary.**
- 3. Install an Internet browser that supports the Java language and frames.**  
Make sure Java is enabled.

See *Getting Started* for more information on supported browsers and other Fiery WebTools requirements.

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**TO ACCESS THE FIERY WEBTOOLS**

- 1. Start the Internet browser.**
  - 2. Enter the IP address or DNS name of the Fiery X3.**
  - 3. Press Return.**
- The Fiery X3 home page appears. Click the name of a WebTool to use it.
- 4. Use the Configure button to enable only certain WebTools for users.**

**Setting the WebLink destination**

The pre-set WebLink destination can be changed; this function requires the Administrator password if one has been set.

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**TO CHANGE THE WEBLINK DESTINATION**

- 1. Start your Internet browser application.**
  - 2. Enter the IP address or the DNS name of the Fiery X3.**
- The Fiery X3 home page appears.
- 3. Enter the Administrator password (if required) and click OK.**
  - 4. Press the Control key (Mac OS) or Ctrl key (Windows) while you click the WebLink button.**
- The Update WebLink dialog box appears.
- 5. Enter the new WebLink address (URL) and click OK.**

## Fiery X3 on a network with UNIX workstations

When a UNIX workstation is configured with the lpd protocol, and connected to the Fiery X3 over a TCP/IP network, it can print directly to the Fiery X3.

Setting up UNIX workstations requires an administrator with root privileges. After the initial configuration, UNIX users simply submit print jobs to a named printer.

The Fiery utilities and Fiery WebTools are not available on the UNIX platform. A Windows or Mac OS computer on the same network as the UNIX computer that is set up to use TCP/IP for printing to the Fiery X3 can use the Fiery utilities to manage print jobs that originate from all workstations on the network.

### Tips for experts—UNIX workstations

Setting up the Fiery X3 in a UNIX environment has the same requirements as setting up any printer or new device:

- **A distinct IP address is needed for the Fiery X3 as well as for each workstation on the network.**
- **You select a Fiery X3 name that goes with the IP address.**
- **The IP address of the Fiery X3 must be registered for the network in a host database, and also on the Fiery X3 itself.**
- **The Print queue or the Hold queue (or both) must be published.**

Lpd printing to the Direct connection is not supported.

The following information applies especially to the Fiery X3:

- **Fiery X3 is a printer controller that understands lpd protocols.**
- **Fiery X3 has a remote printer name you must use in order to communicate with it successfully.**

See the next section for details.

## Important note about the remote printer name

Whichever UNIX system you use, the name used for remote printer (or rp in the /etc/printcap file) in configuring the Fiery X3 must be one of the following:

print  
hold

The remote printer or rp name is also used when setting up your Windows NT 4.0 workstation or server to connect to the Fiery X3 over TCP/IP. Enter the remote printer name when you set up your Windows NT 4.0 printer, as the “Name of printer or print queue on that (lpd host) server” in the Add LPR Compatible Printer dialog box (see *Getting Started*).

## Setting up the Fiery X3 on TCP/IP networks

Every machine (host) on a TCP/IP network, including the Fiery X3, must have a unique 32-bit internet address (IP address). If the network is being set up for the first time, it is a good idea to start out with addresses that can be used with the public Internet. Contact your Internet service provider to obtain an address for the Fiery X3.

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### TO SET UP FIERY X3 PRINTING ON UNIX SYSTEMS

#### 1. Specify the appropriate settings in Fiery X3 Server Setup.

To access Fiery X3 Setup, see page 2-1.

#### 2. Specify the appropriate settings in Fiery X3 Network Setup.

Run the setups listed in the table on page 2-10 and enter a valid IP address, subnet mask, and gateway address for the Fiery X3.

#### 3. Specify the appropriate settings in Fiery X3 Printer Setup.

Publish the Print queue and/or the Hold queue.

---

**TO SET UP TCP/IP FOR COMMUNICATION WITH THE FIERY X3**

1. A superuser (with root login) must add the Fiery X3 to the network's IP host table or other system database of network printers.
2. In the file or utility used by your network, specify the remote printer name, the print server protocol, the queue, and the spool file for the Fiery X3 name you assigned.
3. Make the Fiery X3 available as a printer to other network users.
4. To verify the TCP/IP connection, ping the IP address or the host name. From any computer on the network, at the command prompt, type:

ping <IP address>

Type the Fiery X3 IP address assigned in Fiery X3 Network Setup.

After the Fiery X3 is set up as a network printer, you can also ping the name you gave to the Fiery X3.

ping <hostname>

The server should respond with a message such as:

<IP address> is alive

Some systems will respond with a continuous display of output from the IP address. To stop the output, type Control-C. You can use the ping command at any time.

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**TO PRINT TO THE FIERY X3**

- On a UNIX system running SunOS 4 or other BSD-based variant, use the lpr command to send a job to the Fiery X3.
- On a UNIX system running Solaris 2 or any System V implementation of UNIX, use the lp command to send a job to the Fiery X3.
- Windows NT 4.0 users with the TCP/IP protocol loaded can send print jobs to a Fiery X3 from their applications or from a command prompt.

Printing from applications uses the Windows NT PostScript driver. This gives Windows NT 4.0 users the ability to set print options, which is not possible from the command line.

# 4

## Managing print jobs

UNIX network administrators can use UNIX utilities for viewing the list of jobs, and for printing and removing jobs that are spooled on UNIX servers.

You can also use Fiery WebSpooler to manage jobs from remote workstations. See the *Printing Guide* for more information.

Even without use of the Fiery utilities, you can:

- Set up the Fiery X3 to print a log of printed jobs automatically after every 55 jobs (see Job Log Setup on page 2-43)
- Print a Job Log manually at any time from the Functions menu on the Fiery X3 Control Panel (see the *Printing Guide*)



## Chapter 5: Administering the Fiery X3

This chapter gives tips on managing Fiery X3 printing, and includes some troubleshooting hints.

### Administrator functions

Administration features are provided in the user software package and are built into the Fiery X3 itself. The following table tells you where to find information on these features. Page references refer to this manual.

For these operations	And these tasks	See
Setting up network servers	Setting up servers to manage and share printing services	Chapter 4
Connecting and setting up the Fiery X3	Connecting the Fiery X3 and performing Fiery X3 Setup	Chapter 1 Chapter 2
	Setting up the Fiery X3 to allow user access to Fiery WebTools	Chapter 2 Chapter 4 <i>Getting Started</i>
Setting up the printing environment	Setting printer defaults, including imaging, paper size handling, error handling.	Printer Setup, page 2-37 PS Setup, page 2-39 PCL Setup, page 2-41
Setting up the job environment	Publishing the Direct connection, Print queue, or Hold queue to end users on various platforms	Printer Setup, page 2-37 Chapter 4
Protecting integrity of users' jobs, maintaining consistency of Fiery X3 settings	Setting the Administrator password	Change Password, page 2-45
Setting up all new users	Setting up printing, including installing PostScript and PCL printer drivers for the printer Installing optional user software Preparing users to access Fiery WebTools	<i>Getting Started</i>

For these operations	And these tasks	See
Getting users started with printing	Printing to the Fiery X3 Setting job-specific options Using Fiery Downloader	<i>Printing Guide</i>
Controlling the job flow	Using the Fiery utilities for managing job priorities, tracking current jobs, canceling jobs, printing jobs in the Hold queue, reprinting from the Printed or Hold queue	<i>Printing Guide</i>
Job accounting	Viewing, printing, and exporting the Job Log, user notes	<i>Printing Guide</i>
	Setting automatic printing and clearing for the Job Log	Page 2-43
Maintaining optimal Fiery X3 performance	Tips Deleting jobs, clearing queues	Page 5-2 <i>Printing Guide</i>
Troubleshooting	Troubleshooting Fiery X3 Setup Printing, printer, and user software troubleshooting	Page 5-3 <i>Printing Guide</i>

## Maintaining optimal performance

The Fiery X3 does not require maintenance. Beyond the obvious requirements of servicing and maintaining the copier and replenishing consumables, there are a few things you can do that will improve the overall performance of your system:

- Make sure you are making the best use of your network connections**  
Publish only connections that will be used; the Fiery X3 constantly checks all published connections, even if they are inactive. Match the NetWare polling interval and the number of queues or connections to the demand for printing.  
Review the published connections by printing a Configuration page. Eliminate the connections that are not being used. It is easy to reestablish them when needed. In general, network connections provide far superior throughput than a parallel port connection.
- Reduce the number of printed pages by choosing not to print a cover page by default unless you need cover pages for recordkeeping**  
Printing cover pages by default is a PS Setup option.

- **Leave some jobs that are less urgent to times when there is less network traffic or printing**

Recurring print jobs or jobs that are not urgent can be printed to the Hold queue. At low-traffic times, the administrator can move (or copy) all the Hold queue jobs to the Print queue for printing.

- **Reduce unnecessary two-way communication**

Large numbers of remote users using the Fiery utilities, especially with frequent updates, may have a significant effect on Fiery X3 performance.

- **Make sure you have adequate disk space on the Fiery X3**

Periodically review the list of jobs in the Hold queue and the number of jobs being retained in the Printed queue.

An administrator can print or delete jobs that are in the Printed and Hold queues. Consider printing or offloading inactive jobs. If disk space on the Fiery X3 is frequently low, you can disable the Printed queue (in Server Setup) and elect not to publish the Hold queue (in Printer Setup).

To move or remove queued jobs, use Fiery WebSpooler. When you free up disk space by removing inactive jobs, new jobs are spooled and printed more quickly.

An internal hard drive upgrade may be available. Check with your service representative for more information.

## Troubleshooting

Startup diagnostics are described in the *Installation and Service Guide*, which is the documentation for service technicians. Contact your authorized service/support center if you see any startup error messages on the Fiery X3 Control Panel, or if the Fiery X3 does not reach Idle status.

## Troubleshooting during Setup

The following section explains some error and alert messages that you may see during Fiery X3 Setup that might not be self-explanatory.

## Network Setup messages

After this Setup screen	This message	Means
Enable AppleTalk (Network Setup>Protocol Setup>AppleTalk Setup)	No AppleTalk zone found.	The Ethernet network cable is not attached to the connector on the Fiery X3, or the network cable is not plugged into the hub or network. If your AppleTalk network has zones, and you want to specify a zone for the Fiery X3, you must connect the network cable to the Fiery X3 before performing AppleTalk Setup. It also could mean that the AppleTalk network does not have zones. Zones are not required for printing to the Fiery X3. Press OK to continue.
Protocol Setup or Service Setup (Network Setup)	You must first enable a network port.	At least one network port (Ethernet or Token Ring) must be enabled in Port Setup before Protocol Setup or Service Setup.
Protocol Setup or Service Setup (Network Setup)	You must first enable a network port.	You must enable Ethernet in Port Setup before Protocol Setup or Service Setup.
Frame Type selection (Network Setup>Protocol Setup>IPX/SPX Setup)	Invalid frame size.	The network hub is not connected to a Novell machine when the Fiery X3 tries to bind.
	Warning! IPX network number is zero.	No other IPX machine can be found on the network, or the network hub is not connected to the network, when the Fiery X3 tries to bind. When this occurs, the network number defaults to zero.
	Can't detect Token Ring hardware. Token Ring hardware not installed or not functioning.	Fiery X3 queries the Token Ring hardware. Error indicates that some components are not installed, are not installed correctly, or not installed in the correct device. An unsupported Token Ring board may be in use. Check with your authorized service/support center.
Token Ring Setup	Can't autodetect the ring speed. No device on ring.	The Fiery X3 is trying to detect the current ring speed, but it is the only machine on the token ring network. Connect another machine to the token ring network first, before connecting the Fiery X3.
Enable NDS (Network Setup>Service Setup>PServer Setup>NDS Setup)	No NDS trees found.	No NDS trees were found on the Novell network. Check that IPX frame types are properly set.

After this Setup screen	This message	Means
Select NDS Tree (Network Setup>Service Setup>PServer Setup>NDS Setup)	Warning! Selecting a new NDS tree deletes Bindery setup.	<p>You have previously connected the Fiery X3 to a different NDS tree. NetWise supports only a single NDS tree connection. To avoid a potential conflict with an existing tree connection (for example, if the connection was made through a NetWare 4.x server in emulation mode), all bindery settings will be deleted.</p> <p>If you choose OK, and choose Yes at the following prompt (Delete Bindery setup and continue?), bindery settings are deleted and must be reentered in Bindery Setup.</p> <p>To avoid deleting the bindery settings press the Menu key, or select OK and choose No in the following message screen (Delete Bindery setup and continue?).</p> <p>Repeat NDS Setup without changing the NDS tree, or exit to Bindery Setup to review your current bindery settings.</p>
Navigating NDS tree (Network Setup>Service Setup>PServer Setup>NDS Setup)	___ is empty.	The chosen container contains no sub-containers or objects relevant to the current mode of navigation.
Bindery Setup (Network Setup>Service Setup>PServer Setup>Bindery Setup)	If you also plan to use NDS, set up NDS before Bindery.	No NDS settings are present. You are reminded to perform NDS Setup before Bindery Setup in case your network includes both NDS and bindery servers.
Select File Server From List (Network Setup>Service Setup>PServer Setup>Bindery Setup)	Error. Cannot open bindery connection to NDS server.  No NetWare file server found.	<p>Select this server through NDS setup or disable NDS and select it through bindery.</p> <p>No file server was found when Fiery X3 queried the network to create a list of supported servers or a list of all servers.</p> <p>Check cable connections and make sure the NetWare server is turned on.</p>
Enter First Letters of Server Name (Network Setup>Service Setup>PServer Setup>Bindery Setup)	File server name not found. Try again?	No file server with those letters was found when Fiery X3 queried the network. Check the name of the NetWare file server, check cable connections, and make sure the NetWare server is turned on.

After this Setup screen	This message	Means
View Server List>Edit Connection (Network Setup>Service Setup>PServer Setup>Bindery Setup)	No file server is selected.	No file server has been added in Bindery Setup.
Add File Server (Network Setup>Service Setup>PServer Setup>Bindery Setup)	All connections used. Remove server?	You have added the maximum number of bindery servers, which is eight.
Add Server, Enter Your Login Name, Enter Your File Server Password (Network Service Setup>PServer Setup>Bindery Setup)	No NetWare print server found.	No print server was found when Fiery X3 queried the file server you selected.  You must configure a print server and a print queue for every NetWare file server that will handle Fiery X3 print jobs (see page 4-7).
Any Bindery Setup screen	Novell error code, followed by a message.	Novell NetWare has reported an error. The Control Panel reports the error number and displays a brief message.  For the most common errors (listed in the following table), a screen is displayed that enables you to retry the action that evoked the error, such as adding a server. If that is not possible, you are prompted to notify the Novell administrator, who will need to troubleshoot the network. Consult NetWare Administrator documentation for further explanation of Novell error codes.

In Network Setup, when you are configuring your IPX (Novell) connection, the Fiery X3 queries the network for Novell file servers and print servers, and attaches to them temporarily. If a guest login is enabled, it will be used. If not, you are prompted to log in from the Fiery X3 Control Panel.

If the selected NetWare file server does not have a guest account, or if the guest account has expired or has been disabled by the NetWare supervisor, you are prompted to notify the IPX (Novell) administrator. In that case, you (or the supervisor) have two options:

- Enable a guest account on the NetWare server for the purpose of setup.
- Log in to a different account. At the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or enter another valid login name. When you are prompted for a password, enter the correct password for the account you named.

For any Novell error, make sure:

- Your IPX (Novell) network is connected to the Fiery X3.
- The NetWare server you are trying to access is running.
- The Novell network has been configured with at least one print server and queue for the Fiery X3.
- You have the appropriate permissions.
- Each NetWare server is using one of the frame types you have set on the Fiery X3 in Network/IPX/SPX Setup.

### Novell error screens

Novell error	Cause	Suggested action or exit
220 Guest account not available.	The guest account, which you have chosen for initial login, has expired or has been disabled by the NetWare supervisor.	Enable a guest account on the NetWare server for the purpose of setup.  Alternatively, log in to a different account. In the ENTER LOGIN NAME screen, change the default name (guest) to supervisor or another valid login name. When you are prompted for a password, enter the correct password for the account you named.
222 Unable to log in to server.  Password has expired for login name.	The server has connected to a file server, but is unable to log in to the file server or print server because the password has expired for the login account name or the named print server.	Select a different login account or print server.  The error screen exits to the File Server Login screen (if login to file server failed) or NetWare Print Server screen (if login to Print Server failed).  Pressing the Menu button returns to the PServer Setup screen.
252 Unable to log in to server.  Login does not exist.	The server has connected to a file server, but is unable to log in to the server because the selected login account does not exist on the file server.	Select a different login account.  The error screen exits to the File Server Login screen. Pressing the Menu button returns to the PServer Setup screen.
255 Unable to connect to file server.  File server is down or out of connections.	The Novell file server is down or out of connections.  This error occurs while the server is trying to connect to the requested file server.	Select a different file server (or try to get someone else to log off).  Pressing the Menu button returns to the PServer Setup screen.

Novell error	Cause	Suggested action or exit
nnn Notify IPX (Novell) Administrator.	Indicates other network errors when the Fiery X3 is already connected to a file server. Something unexpected has happened and the user generally cannot recover without intervention of the network administrator.  Error #197 indicates that you have exceeded the number of login attempts permitted for this account on the NetWare file server.  Error #220 indicates that the guest account you selected is not available.  Error #255 usually indicates a hard failure.	Notify the Novell administrator and report the error number.  The error screen exits to the PServer Setup screen.

### Runtime error messages

For canceling jobs and error messages related to printing, see the *Printing Guide*. See the *Printing Guide* for additional runtime error messages, including printer errors, alerts to load media in trays or cassettes, and a disk full message. These messages are reported by the Control Panel and the Fiery utilities.

PostScript error reporting can be turned on as a print option from Mac OS applications that use a PostScript Level 2 or PostScript 3 driver or by setting the PS Setup option Print to PS Error to Yes.

### Check power and cable

This message on the Touch Panel Display indicates that the interface cable between the Fiery X3 and the copier is not connected, or a print job is ready but the copier is not turned on. Depending on the copier model, the runtime diagnostics Test Scan/Print, Video Diagnostics, and Cable Check may be available for service technicians.

### Printer not found—TCP/IP or IPX networks

Most failures to find a printer on the network are due to conflicting or missing name or address settings for the Fiery X3. You must enter particular names in certain places. The required names are:

- TCP/IP host name or DNS name, which is defined by the network administrator and should be fewer than 10 characters long.

Enter the host name as the Server Name on the Control Panel.

- Remote printer (internal machine) name. Use one of the following:

print  
hold

See *Getting Started* for more information on setting up the remote printer name for Windows NT 4.0.

You must reconfigure one of the Fiery utilities on each workstation if you change the TCP/IP host name or DNS name of the Fiery X3.

Check the following table for the appropriate name to use.

In this location	For this item	IPX/SPX networks	TCP/IP networks	See
Server Setup on Fiery X3 Control Panel	Server Name option	Defined by administrator	Defined by administrator	page 2-7
Windows NT hosts file	host name	—	DNS name or TCP/IP host name	page 4-11
Windows NT setup for TCP/IP	lpd host name	—	DNS name or TCP/IP host name	page 4-11 and <i>Getting Started</i>
	name of printer on lpd host machine	—	print hold	

In this location	For this item	IPX/SPX networks	TCP/IP networks	See
UNIX /etc/hosts file	rp line	—	print hold	page 4-18
Solaris	lpadmin queue name	—	print hold	
NetWare administration utility	print queues (must be all lowercase and in English)	_direct _print _hold	—	page 4-6
Add New Server dialog box, when configuring a Fiery utility	New Device	Utilities are not supported over IPX/SPX.	65BW-M Pro	<i>Getting Started</i>
	Server Name	Utilities are not supported over IPX/SPX.	DNS name or TCP/IP host name	

### Cannot connect to Fiery X3 with Fiery Downloader

If clients cannot connect to the Fiery X3 with Fiery Downloader, check the following:

- Fiery X3 Setup—the appropriate network protocol must be enabled, with the correct parameters (for example, for TCP/IP, the IP address, etc.), and you must have published the Print queue.



## **Appendix A: Token Ring Network Option**

Token Ring is an alternative network architecture to Ethernet architecture. Token Ring networks offer a high resistance to failure and are commonly used in large or high-traffic network installations.

Token Ring networks operate by passing a network token around the electronic equivalent of a ring. The token is a data packet that circulates from one network node to another, controlling access to the network. In practice, each workstation is connected to a port on one or more media attachment units (MAUs) which act as network hubs for the ring connection.

This appendix describes the Token Ring option and cable connections, and refers you to the remaining configuration required for printing to the Fiery X3.

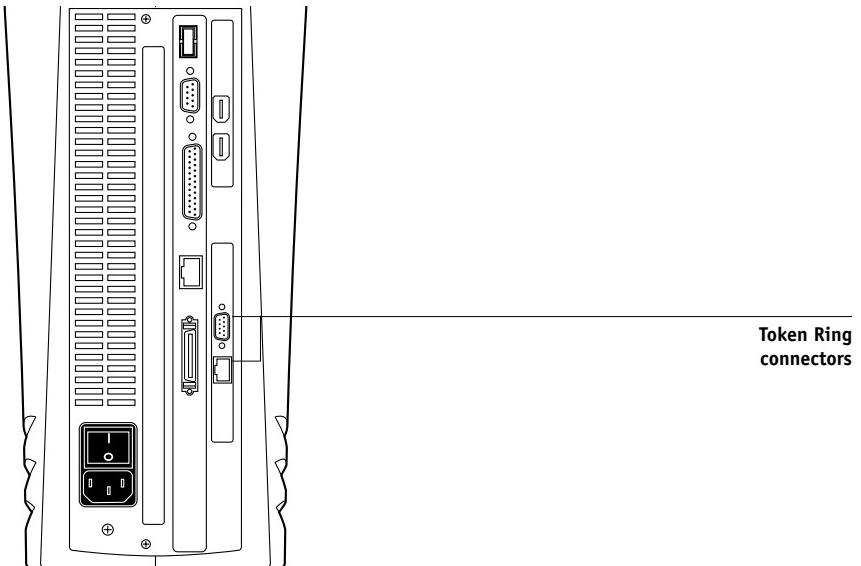
### **Fiery X3 Token Ring option**

The Fiery X3 supports Token Ring networks that use IPX and TCP/IP protocols. To use the Fiery X3 with a Token Ring network, a Token Ring network interface card provided by EFI must be installed in the Fiery X3. You can use either shielded twisted pair (STP) or unshielded twisted pair (UTP) cable.

### **Connecting Token Ring hardware**

The service/support center that installs the Fiery X3 typically also installs the Token Ring option at the same time and configures the Fiery X3 to enable printing.

## Back view of the Fiery X3 with the Token Ring option installed



Turn off the Fiery X3 before connecting it to any network device.

**NOTE:** Do not attach cable to both Token Ring connectors.

---

### TO CONNECT CABLE TO THE FIERY X3

1. Turn off the Fiery X3.
2. Connect cable from the Token Ring MAU to the Fiery X3 Token Ring card.

Configure the NetWare, Windows NT, or UNIX server to print to the Fiery X3 (see the next two sections). Then proceed to page 2-1 for Fiery X3 Setup.



## IPX/SPX installations

If your network uses IPX/SPX protocols with Token Ring, configure at least one printer, one Fiery X3 Print Server, and one Fiery X3 Print Queue on the NetWare server as described in “Fiery X3 on a NetWare 3.x, 4.x, or 5.x network” on page 4-4. You can configure up to eight bindery servers and one NDS tree connection to the Fiery X3. This total is the same whether the Fiery X3 is connected by Token Ring, by Ethernet, or by both. For more information, see “Setting up an NDS connection” on page 4-9.

## TCP/IP installations

If your network uses TCP/IP protocols with Token Ring, configure at least one printer and one Fiery X3 queue on a Windows NT server (see “Configuring a Windows NT 4.0 server to support the Fiery X3” on page 4-12), or on a UNIX server (see “Fiery X3 on a network with UNIX workstations” on page 4-18).

## Setting up Token Ring on the Fiery X3

Token Ring Setup on the Control Panel is similar to Ethernet Setup. From Network Setup, perform Port Setup, Protocol Setup, and Service Setup.

**NOTE:** Connect the Token Ring cable before doing Fiery X3 Network Setup, so that the Token Ring card can configure itself properly.

## Setting up NetWare Windows clients

Client setup is exactly the same as for IPX clients using Ethernet. See “Setting up NetWare Windows clients for printing” on page 4-10 for details.



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